

Education

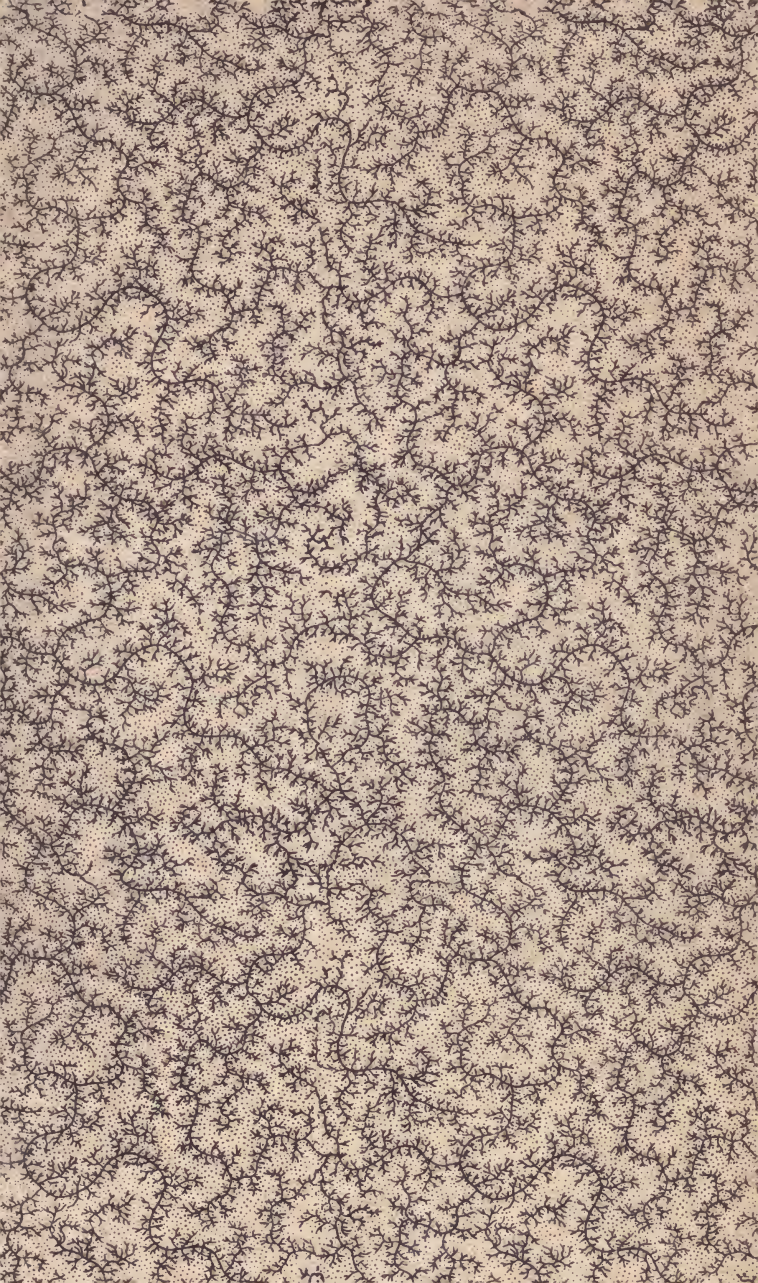
Bibliography

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PREFACE.

The books which are catalogued in this little volume have been brought together during the past four years. On entering upon the duties of Superintendent of Public Schools in Philadelphia, I felt that it would be a great advantage to have at command the best authorities on the history, science and art of education. Questions would be sure to arise in connection with the work of organizing the supervision of the schools which would render such a collection of books a great convenience to those immediately connected with the Superintendent's Office, to the teachers, and to other persons interested in the public school system of the city. The liberality of the Board of Public Education has enabled me to carry out this purpose, and while the resources at command have been limited, the library has grown to such proportions as to render the printing of a catalogue a necessity.

The field of pedagogical literature is so extensive that it has not been possible to do more than make a selection of books adapted to the immediate needs of the department, while laying a broad foundation for future additions. What was required was a good working pedagogical library, and it is believed that the selection made furnishes the essentials for a pretty thorough study of the history and theory of education in the past, as well as ample materials for dealing with the living questions of our own time.

The paucity of German books will be noticed by every one having the slightest acquaintance with the richness of that language in pedagogical works. The general utility of the library must be urged as an

explanation of this deficiency. Besides, many of the writings of the great German educators are now accessible to the English reader, and the results of German thought and experience are speedily set before us in the form of translations and in original works upon the education of that country.

No apology, it is presumed, is needed for what may seem an undue preference for the French writers on education. The striking progress recently made in public education by our sister European republic has attracted marked attention all over the world. This advance has been accompanied by an awakening among her leading publicists and educators, that has borne fruit in a goodly array of works relating to education in both its theoretical and practical aspects, and possessing all those qualities so characteristic of the French mind in every department of literary effort. While the French, like all the rest of the world, have been borrowers in education from the Germans, it must be admitted that of late years they have been producing books of great pedagogical value. These are quite fully represented in this library, and it is believed, are not one of its least important features.

To increase the usefulness of the catalogue, a selection of references to the more recent and important articles in the leading periodicals has been added. Some of the best pedagogical literature of the day appears in this form; and it was thought that the references to these sources of information, so easy of access in public libraries, would prove a convenience to persons consulting the catalogue for guidance or suggestions on special topics. Occasional bibliographical notes have been inserted for the same reason. I may be permitted to state with regard to both of these features that no attempt at completeness has been made. They might have been greatly extended; but I have confined myself to making selections from my own notebooks and the memoranda of my current reading. The object has been to call attention to such articles and books as are of special value, or are interesting on account of their bearing upon new and pressing educational questions.

The rules sanctioned by the best authorities have been followed in the arrangement and details of the catalogue. In nearly every case, the titles of the separate articles in volumes of a miscellaneous character have been given under the general title.

It will be understood that the books in History, Science, Language and Literature are merely an incidental feature of the library. The selection in United States History might lay claim to be at least representative of the subject; but outside of that, only such volumes have been added as are needed for convenient reference in conducting the supervision of a large system of schools.

The growing attention given by teachers to the literature and learning of their own profession is one of the most hopeful and encouraging signs of the times. Classes in Psychology, the History of Pedagogy and the Science of Education, are fast becoming a feature of teachers' reading circles, and Normal Schools are beginning to realize that something more than a few lessons in "methods" and two or three weeks' practice in a "training school," are required to prepare young men and women for the responsible duties of the school-room. The formation of pedagogical libraries in connection with the administration of city and state school systems will, I am sure, do much to promote this forward movement; and it is a source of great satisfaction to me that the Board of Public Education of Philadelphia is, I believe, the first to take this step.

It is only just that I should state that any faults that may be found in the catalogue are attributable to the limited time which I have been able to devote to it. All the work has been done in the odd minutes that could be spared from the performance of my official duties. It has been time very pleasantly spent, but I should have greatly preferred to make a more serious task of even the little that was undertaken.

I must acknowledge the valuable service rendered by my clerk, Miss Adele M. Smith, in reading the proofs. She has been indefatigable in her efforts to prevent the mistakes which are apt

to creep into the printing of so large a number of names and titles ; and it will be a disappointment if any serious error should be discovered.

J. MAC A.

Superintendent's Office,
August, 1887.

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The first attempt at a consecutive history of the University. The author expects, in subsequent volumes, to bring it down to recent times.

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An exceedingly useful outline, possessing features not found in Compayré's history.

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The article on education in the *Encyclopædia Britannica*, ninth edition.

42. ——— Primary education in England. *In Science and education*, vol. I, p. 1.

A useful sketch of the movement for the establishment of state aid to elementary education in England.

43. Pennypacker, Samuel W. Christopher Dock, the pious school-master of the Skippack, and his works. *In his Historical and biographical sketches*. pp. 91. Philadelphia, 1883.

An interesting essay, containing an account of the principal writings of this almost unknown schoolmaster, to whom, it is believed, attention is called for the first time, by Mr. Pennypacker. The full title of Dock's principal work will be found in Hildeburn's *Issues of the press in Pennsylvania*, vol. II, No. 2,522. Of this work—"School management"—Mr. Pennypacker says: "It is the earliest written and published in America upon the subject of school teaching, and it is the only picture we have of the colonial country school. It is remarkable that at a time when the use of force was considered essential in the training of children, views so correct upon the subject of discipline should have been entertained. The only copy of the original edition I have ever seen is in the Cassel collection, recently secured by the Historical Society of Pennsylvania, and a ten years' search for one upon my own part has so far resulted in failure."

Mr. Pennypacker says further in a foot-note: "It is always treading on dangerous ground to say of a thing that it is the first of its kind, and especially is this true of books whose numbers are infinite. I know of no publication on the subject written earlier, and the bibliography of the American antiquarian society shows none. If there be any in New England or elsewhere to dispute priority with that of the *Pennsylvania Dutchman*, let it be produced."

44. Quick, Robert Hebert. *Essays on educational reformers*. pp. 331. Cincinnati, 1879.

Contains the following essays:—

1. The schools of the Jesuits.
2. Ascham, Montaigne, Ratich, Milton.

3. Comenius.
4. Locke.
5. Rousseau's *Émile*.
6. Basedow and the philanthropin.
7. Pestalozzi.
8. Jacotot.
9. Herbert Spencer.

45. ——— The Renaissance and its influence on education. *In Education*, vol. I, pp. 37, 177.

46. Rosenkranz, Johann Karl Friedrich. Particular systems of education. Part III of his *Philosophy of education*.

An outline of the history of education based on the philosophy of history—a mode of treatment not found in the other writers on the subject.

47. Schmidt, Karl. *Geschichte der pädagogik, dargestellt in weltgeschichtlicher entwicklung und im organischen zusammenhange mit dem culturleben der Völker*. 4 vols. Göttingen, 1873-1876.

Vol. I. Die geschichte der pädagogik in der vorchristlichen zeit. pp. 525.

Vol. II. Die geschichte der pädagogik von Christus bis zur Reformation. pp. 496.

Vol. III. Die geschichte der pädagogik von Luther bis Pestalozzi. pp. 784.

Vol. IV. Die geschichte der pädagogik von Pestalozzi bis zur gegenwart. pp. 1140.

48. Smith, Goldwin. *The University of Oxford. In his Lectures on the study of history, etc.*, p. 217.

An interesting sketch of the rise, growth, and organization of Oxford.

See also *Oxford university*, by M. D. Conway, in *Harper's magazine*, vol. LVIII, p. 17; and *The structure of Oxford*, by A. Wilcox, in *Scribner's monthly*, vol. XVI, p. 368.

49. Souquet, Paul. Les écrivains pédagogues du XVI^e siècle. pp. 193. Paris, 1880.

Extraits des œuvres de Érasme, Sadolet, Rabelais, Luther, Vivès, Ramus, Montaigne, Charron.

50. Steven, William. The history of the high school of Edinburgh. pp. 220. Edinburgh, 1849.

51. Symonds, John Addington. Renaissance in Italy. The revival of learning. pp. 549. New York, 1881.

See also On the relations of the revival of learning and the Renaissance to modern culture and education, Alfred Von Reumont's Lorenzo D'Medici, book iv; Jacob Burckhardt's Civilization of the period of the Renaissance in Italy, part III; P. Villari's Niccolò Machiavelli and his times chap. III of the introduction; C. S. Parker's essay on the History of classical education, in Farrar's Essays on a liberal education, p. 1; the Hibbert lectures for 1883, by Charles Beard, chap. II; and C. J. Stillé's Studies in mediæval history, chap. XIII.

52. Townsend, W. J. The great schoolmen of the middle ages. An account of their lives and the services they rendered to the church and the world. pp. 361. London, 1881.

53. Venable, M. H. Quintilian. *In Education*, vol. v, p. 165, 322.

54. Wordsworth, Christopher. Scholæ academicæ: some account of the studies at the English universities in the eighteenth century. pp. 435. Cambridge, 1877.

Devoted chiefly to Cambridge university.

b. HISTORY AND DESCRIPTION OF SCHOOLS AND SCHOOL SYSTEMS.

1. Adams, Francis. History of the elementary school contest in England. pp. 349. London, 1882.

See also Elementary education in London, Bureau of education circulars, 1878.

2. **Alcott, A. Bronson.** Record of Mr. Alcott's school, exemplifying the principles and methods of moral culture. pp. 297. Boston, 1874.
3. **Anon.** On public schools. pp. 373. London, 1881.

Contains historical and descriptive sketches of Eton, Harrow, Winchester, Rugby, Westminster, Marlborough, the Charter House, and public school education.
4. **Arnold, Matthew.** A French Eton; or, middle-class education and the state. pp. 122. London, 1864.
5. ——— Higher schools and universities in Germany. pp. xxvii, 245. London, 1882.
6. **Barnard, Henry.** An account of universities and other institutions of superior instruction. pp. xlviii, 896. Hartford, 1873.
7. **Belgium, Russia, Turkey, Servia, and Egypt,** An account of the systems of public instruction in. Bureau of education circulars. Washington, 1875.
8. **Breal, Michel.** Excursions pédagogiques. pp. 364. Paris, 1882.
 1. Un voyage scolaire en Allemagne; le gymnase; les études classiques; un caractère de l'enseignement allemand; comment l'enseignement secondaire s'est relevé en Allemagne; l'examen de maturité; les exercices physiques; l'école réelle.
 2. Une excursion en Belgique. Les facultés de philosophie.
 3. Excursions en France. L'enseignement secondaire spécial; l'enseignement supérieur; les statistiques de l'enseignement; coup d'œil sur nos lycées; les réformes de 1880; les facultés des lettres.
9. **Bristed, Charles Astor.** Five years in an English university. pp. 572. New York, 1874.
10. **British India,** Schools in. Bureau of education circulars, 1873. Washington.

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11. **British West Indies, Education in the.** Bureau of education circulars, 1872.
 12. **Cournot, M.** Des institutions d'instruction publique en France. pp. 575. Paris, 1864.
Part I. Théorie. Part II. Historique.
 13. **Dreyfus-Brisac, Edmond.** L'éducation nouvelle. Études de pédagogie comparée. pp. 330. Paris, 1882.
 - I. L'enseignement supérieur en France.
 - II. L'enseignement secondaire en France.
 - III. Les universités allemandes.
 - IV. Les écoles supérieures en Allemagne.
 - V. Quelques mots sur l'enseignement aux États-Unis.
 14. **Dumont, Albert, and others.** Notes on higher education in France. In Conference on education (International health exhibition literature, vol. xv, p. 129).
 15. **Education in Japan:** a series of letters addressed by prominent Americans to Arinori Mori. pp. lvii, 195. New York, 1873.
 16. **Egypt, Public instruction in.** A chap. in J. C. McCoan's Egypt as it is. New York, 1879.
 17. **Finland, the Netherlands, Denmark, Würtemberg, and Portugal.** Bureau of education circulars, 1877. Washington.
 18. **France, Education in.** Bureau of education circulars, 1881. Washington.
 19. **Germany, History of secondary instruction in.** Bureau of education circulars, 1874. Washington.
 20. **Hart, James Morgan.** German universities. pp. 398, New York, 1878.

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21. **Hippeau, C.** *L'instruction publique en Angleterre.* pp. xv, 138. Paris, 1872.
22. ——— *L'instruction publique en Allemagne. Salles d'asile (kindergarten)—écoles primaires; realschulen—gymnases; universités—écoles spéciales.* pp. xxxv, 407. Paris, 1873.
23. ——— *L'instruction publique dans les États du Nord—Suède, Norwége, Danemark.* pp. xxxv, 320. Paris, 1876.
24. ——— *L'instruction publique aux États-Unis. Écoles publiques, collèges, universités, écoles spéciales.* pp. xii, 467. Paris, 1878.
25. ——— *L'instruction publique en France pendant la révolution. Discours et rapports de Mirabeau, Talleyrand-Périgord, Condorcet, Lanthenas, Romme, Le Peletier, Saint-Fargeau, Calès, Lakanal, Daunou et Fourcroy.* pp. xxiii, 519. Paris, 1881.
26. ——— *L'instruction publique en France pendant la révolution. Débats législatifs.* pp. xxxii, 379. Paris, 1883.
27. ——— *L'instruction publique en Italie.* pp. xvi, 418. Paris, 1875.
28. ——— *L'instruction publique dans l'Amérique du Sud (République Argentine). Enseignement primaire, enseignement secondaire, enseignement supérieur.* pp. lvii, 403. Paris, 1879.
29. ——— *L'instruction publique en Russie.* pp. liv, 407. Paris, 1878.

30. Laveleye, Emile de. *L'instruction du peuple.* pp. 489. Paris, 1872.

Part I discusses the leading questions connected with the right and duty of the state to educate the people. Part II.—Legislation and condition of public instruction in the different States.

31. Lawrence, Eugene. *Educational progress.* Chapter x in *The first century of the Republic.*

32. Lord, John K. *The German school system.* In *Education*, vol. VII., pp. 92, 165.

33. *Maternelle schools in France.* Bureau of education circulars, 1882. Washington.

34. Northrop, Birdsey Grant. *Education abroad, and other papers.* pp. 176. New York, 1873.

35. Payne, Joseph. *A visit to German schools.* pp. 138. London, 1876.

36. Rigg, James H. *National education, in its social conditions and aspects, and public elementary school education, English and foreign.* pp. 517. London, 1873.

An able and important work, and still valuable for the information it contains and the discussion of questions of permanent interest.

37. Roe, Henry, *and others.* *The English system of elementary education: its growth, organization, and present condition.* In *Conference on education* (International health exhibition literature, vol. XIII, p. 168).

38. *Rural schools; progress in the past; means of improvement in the future.* Bureau of education circulars, 1884. Washington.

39. *Spain, Bolivia, Uruguay, and Portugal, Historical summary and reports on the systems of public instruction in.* Bureau of education circulars, 1873. Washington.

40. Staunton, Howard. The great schools of England : an account of the foundation, endowments, and discipline of the chief seminaries of learning in England, including Eton, Winchester, Westminster, St. Paul's, Charter-House, Merchant Taylors', Harrow, Rugby, Shrewsbury, etc.; with illustrations. London, 1865.
41. Stedman, Algernon, M. M. Oxford : its social and intellectual life. With remarks and hints on expenses, the examinations, the selection of books, etc. pp. 309. London, 1878.
42. Tegima, S. General outlines of education in Japan. *In* Education ; vol. v, p. 474 ; vol. vi, p. 141.
43. Wiese, Dr. L. German letters on English education. Translated and edited by Leonhard Schmitz. pp. 296. New York, 1879.

c. AMERICAN SCHOOLS AND EDUCATION.

1. Adams, Francis. The free school system of the United States. pp. 309. London, 1875.
2. Adams, Herbert B. The college of William and Mary : a contribution to the history of higher education, with suggestions for its national promotion. Bureau of education circulars, 1887. Washington.
3. Blake, Sophia Jex. A visit to some American schools and colleges. pp. 250. London, 1867.
4. Bourne, Wm. Oland. History of the public school society of the city of New York. pp. 320. New York, 1870.

5. **Brooks, Phillips.** The oldest school in America : an oration at the celebration of the two hundredth and fiftieth anniversary of the foundation of the Boston Latin school, April 23, 1885. pp. 106. Boston, 1885.

See also Memorial of the dedication of the public Latin and English high school-house. Pamph. Boston, 1881.

6. **Bush, George Gary.** Harvard, the first American university. pp. 160. Boston, 1886.

The best work on Harvard is Josiah Quincy's history, Cambridge, 1840, but it is out of print and difficult to obtain.

See S. A. Eliot's sketch of the history of Harvard college ; G. E. Ellis's history of Harvard college, in *Christian examiner*, vol. XLV ; H. E. Scudder's article on Harvard university, in *Scribner's monthly*, vol. XII, p. 337 ; Edward Everett's addresses and orations, vol. I, p. 173 ; the oration by J. R. Lowell, and the poem by O. W. Holmes on the 250th anniversary of the college, in supplement to *Atlantic monthly*, for December, 1886.

7. **Carpenter, Stephen H.** An historical sketch of the university of Wisconsin, from 1849 to 1876. Pamph. Madison, Wis., 1876.

8. **Farrand, Elizabeth M.** History of the university of Michigan. pp. 300. Ann Harbor, 1885.

See also Ten Brook's American state universities.

9. **Jefferson, Thomas, and Cabell, J. C.** Early history of the university of Virginia. Richmond, 1866.

An important work, but out of print and scarce.

10. **Ladreyt, Marie-Casimir.** L' instruction publique en France et les écoles américaines. pp. 378. Paris, n. d.

11. **Passy, Paul.** L' instruction primaire aux États-Unis. Rapport présenté au ministre de l' instruction publique. pp. 220. Paris, 1885.

12. Philbrick, John D. City school systems in the United States. Bureau of education circulars, 1885. Washington.
13. Porter, Noah. The American colleges and the American public, with after-thoughts on college and school education. pp. 403. New York, n. d.
14. School of the collegiate reformed Dutch church in the city of New York, History of the, from 1633 to 1883. pp. ix, 284. New York, 1883.
15. Smith, Charles Forster. Southern colleges and schools. *In Atlantic monthly*, Oct., 1884, and Dec., 1885.
16. Swett, John. History of the public school system of California. San Francisco, 1876.
17. Ten Brook, Andrew. American state universities, their origin and progress; a history of congressional university land-grants; a particular account of the rise and development of the university of Michigan, and hints toward the future of the American university system. pp. 410. Cincinnati, 1875.
18. Thwing, Charles F. American colleges, their students and work. pp. 213. New York, 1883.
19. Whitford, W. C. Historical sketch of education in Wisconsin. Pamph. Madison, 1876.
20. Wickersham, James Pyle. A history of education in Pennsylvania, private and public, elementary and higher; from the time the Swedes settled on the Delaware to the present day. pp. 683. Lancaster, 1886.

21. William Penn's charters of ye publick school founded by charter in ye town and county of Philadelphia, in Pensilvania, 1701, 1708, 1711. pp. 31. Philadelphia, n. d.
22. Wisconsin, Historical sketches of the colleges of; prepared for the national and centennial exposition, 1876. Pamph. Madison, Wis., 1876.

NOTES.

Note 1.—See also the lecture on Education in Massachusetts, by George B. Emerson, in lectures on the Early history of Massachusetts, p. 463; A Salem dame school, by Eleanor Putnam, in Atlantic monthly, Jan., 1885; the chapter on Educational progress, by Eugene Lawrence, in The first century of the republic, p. 279; and various references to the subject in Scudder's Men and manners in America one hundred years ago, Palfrey's History of New England, Lodge's Short history of the Colonies, and McMaster's History of the people of the United States. Much useful information will be found in the tables, maps, and descriptive text of Scribner's statistical atlas of the United States.

Note 2.—The following references to articles, historical and descriptive, on some American colleges, will be found useful.

Columbia College, N. Y. Harper's magazine, vol. XLIX, p. 813.

Cornell University. Harper's magazine, vol. XXXVIII, p. 144.

Johns Hopkins' University, The. (S. B. Herrick). Scribner's monthly, vol. XIX, p. 199.

King's College, N. Y. (J. MacMullen). Harper's magazine, vol. XLIX, p. 715.

Michigan, The University of. (M. C. Tyler). Scribner's monthly, vol. XI, p. 523.

Princeton College. (S. D. Alexander). Scribner's monthly, vol. XIII, p. 625.

Smith College. Scribner's monthly, vol. XIV, p. 9.

Trinity College, Hartford. (W. C. Brocklesby). Scribner's monthly, vol. XI, p. 601.

Union College. Harper's magazine, vol. XXXI, p. 809.

———. (William Wells). Scribner's monthly, vol. XII, p. 229.

Vassar College. (Anna C. Brackett). Harper's magazine, vol. LII, p. 346.

Virginia University. (M. S. D'Vere). Harper's magazine, vol. XLIV, p. 815.

Wellesley College. (Edward Abbott). Harper's magazine, vol. LIII, p. 538.

William and Mary College. (J. E. Cooke). Scribner's monthly, vol. XI, p. 1.

Yale College. (H. A. Beers). Scribner's monthly, vol. XI, p. 761.

d. EDUCATIONAL BIOGRAPHY.

1. Agassiz, Elizabeth Cary, *editor*. Louis Agassiz: his life and correspondence. 2 vols. pp. 400, 794. Boston, 1885.

2 Froebel, Friedrich, *Autobiography of*. Translated and annotated by Emilie Michaelis and H. Keatley Moore. pp. 144. London, 1886.

3. Krusi, Hermann. Pestalozzi: his life, work, and influence. pp. 248. New York, n. d.

Part II contains biographical sketches of the associates of Pestalozzi.

4. Mann, Mrs. Mary. Life of Horace Mann. pp. 609. Boston, n. d.

5. Marenholz-Bülów, *Baroness B. von*. Reminiscences of Friedrich Froebel. Translated by Mrs. Horace Mann. With a sketch of the life of Friedrich Froebel, by Emily Shirreff. pp. 359. Boston, 1882.

6. Mill, John Stuart. *Autobiography*. pp. 313. New York, 1883.

7. Miller, Hugh. My schools and schoolmasters; or, the story of my education. pp. 551. New York, 1882.

8. Pompée, P. P. Études sur la vie et les travaux pédagogiques de J. H. Pestalozzi. pp. 408. Paris, 1878.

Part I. Biographie. Part II. Méthode.

9. Scudder, Horace E. Noah Webster. pp. 302. Boston, 1883.
In the *American men of letters* series.
10. Shirreff, Emily. A sketch of the life of Friedrich Fröbel. with a notice of Madame von Marenholtz-Bülow's "Personal recollections of F. Fröbel." Pamph. London, 1877.
11. Stanley, Arthur Penrhyn. The life and correspondence of Thomas Arnold, D.D. pp. 400. New York, n. d.

III.

THEORY OF EDUCATION.

a. PRINCIPAL ORIGINAL WRITERS AND AUTHORITIES ON THEORETICAL EDUCATION, IN CHRONOLOGICAL ORDER.

1. Plato (b. 429, d. 348 B. C.), *The republic* of. Translated, with an analysis and notes by J. L. Davies and D. J. Vaughan. pp. xxxii, 370. London, 1881.
2. Aristotle (b. 384, d. 322 B. C.), *The politics* of. Translated with an analysis and critical notes by J. E. C. Welldon. pp. xevi, 407. London, 1883.
3. Xenophon (d. circa 350 B. C.). *Cyropædia*. Translated by J. S. Watson. [Bohn's classical library.] London, n. d.

The first book treats of education among the Persians and Spartans.

Xenophon's *Economics* contains his opinions on the education of women.

4. Cicero (b. 106, d. 43 B. C.). Oratory and orators. Translated or edited by J. S. Watson. pp. 379. New York, 1881.

5. Quintilian (b. *circa*, 40 A. D.). Institutes of oratory; or, education as an orator. Translated by John Selby Watson. 2 vols. pp. 464, 474. London, 1882.

6. Plutarch (d. *circa* 100 A. D.). His educational doctrines are set forth in his *Morals*, and in the essays: Of the training of children; Conjugal precepts; That virtue may be taught; How a young man ought to hear poems.

The best edition of the English translation of the *Morals* is that edited by Goodwin. 5 vols. Boston, 1870.

7. Ascham, Roger (b. 1515, d. 1568). The scholemaster. Edited by John E. B. Mayor. pp. xxiii, 296. London, 1863.

8. ——— The scholemaster. Collated by Edward Arber. pp. 160. London, 1870.

9. Montaigne, Michel de (b. 1533, d. 1592).

The essays having special reference to education are as follows: Of pedantry, book I, chap. 24; Of the education of children, book I, chap. 25; Of the affection of fathers to their children, book II, chap. 27. (Hazlitt's translation.)

10. Bacon, Francis, *Lord Verulam* (b. 1561, d. 1626). The advancement of learning. Edited by William Aldis Wright. pp. xlviii, 376. Oxford, 1880.

11. ——— The novum organon; or, a true guide to the interpretation of nature. Translated by G. W. Kitchin. pp. xxix, 338. Oxford, 1855.

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12. **Comenius, John Amos** (b. 1592, d. 1671). There are no English translations of Comenius's works; but very full analyses and critical accounts of his *Didactica Magna* and text books will be found in S. S. Laurie's *John Amos Comenius, his life and educational works*.
 13. **Milton, John** (b. 1608, d. 1674). A tractate on education. Edited by Oscar Browning. pp. ix, 43. Cambridge, 1883.
 14. **Locke, John** (b. 1632, d. 1704). *Some thoughts concerning education*. Edited by R. H. Quick. pp. lxiii, 240. Cambridge, 1880.
 15. **Rousseau, J. J.** (b. 1712, d. 1778). *Émile ou de l'éducation*. pp. 643. Paris, 1883.
 16. ——— *Émile ou de l'éducation. Extraits choisis, avec deux introductions par Paul Souquet*. pp. 313. Paris, 1880.
 17. ——— *Émile; or, concerning education*. Translated by Eleanor Worthington. pp. 157. Boston, 1885.
 18. **Pestalozzi, J. H.** (b. 1746, d. 1827). *Leonard and Gertrude*. Translated and abridged by Eva Channing. pp. x, 181. Boston, 1885.
 19. **Richter, Jean Paul Friedrich** (b. 1763, d. 1825). *Levana; or, the doctrine of education*. Preceded by a short biography of the author and his autobiography; a fragment. pp. 413. London, 1876.

20. **Jacotot, Joseph** (b. 1770, d. 1840). *Enseignement universel*. Paris.

In lieu of this and Jacotot's other works, which are not easily procured, consult Payne's compendious exposition of Jacotot's system of education, *in his* Science and art of education, which contains an excellent statement of the general principles and methods, and the papers by G. F. Kenaston, in *Education*, vol. II, pp. 446, 565. Also B. Perez's *Jacotot et sa méthode d'émancipation intellectuelle*.

21. **Froebel, Friedrich** (b. 1782, d. 1852). *L'éducation de l'homme*. Traduit de l'allemand par la baronne de Crombrugghe. pp. 394. Paris, 1881.

22. ——— The education of man. Translated by Josephine Jarvis. pp. 273. New York, 1885.

23. **Spencer, Herbert** (b. 1820). *Education: intellectual, moral and physical*. pp. 283. New York, 1883.

Note.—For less important authorities and critical accounts of the works of the writers given above, see the titles under the heading *General history of education*, and a number of the works, *infra*.

b. GENERAL.

1. **Adams, C. F., Jr.** Scientific common schools. *In Harper's magazine*, vol. LXI, p. 934.

2. **Bain, Alexander.** *Education as a science*. pp. 453. New York, 1883.

3. ——— *Practical essays*. pp. 338. New York, 1884.

Contains among other papers, the following:—

Common errors on the mind.

Civil service examinations: a classical controversy.

University ideals, past and present.

The art of study.

Religious tests and subscriptions.

4. **Barnard, Henry, editor.** Letters, essays and thoughts on studies and conduct. Addressed to young persons by men eminent in literature and affairs. pp. 552. Hartford, 1873.

5. ——— *editor.* German pedagogy : education, the school and the teacher in German literature ; republished from Barnard's American journal of education. pp. 916. Hartford, 1876.

Contains the following papers :—

- I. Schools and education in German literature.
- II. Frederick Froebel—System of infant garden training and instruction.
- III. Goethe, Rosenkranz, Herbart, Beneke, Fichte—Examples of German treatment of pedagogic subjects.
- IV. Karl von Raumer—Selections from his writings.
- V. Rudolph Raumer—Study of the German language.
- VI. F. Adolph Wilhelm Diesterweg—Selections from his writings.
- VII. G. A. Riecke—Man as the subject of education.
- VIII. John Baptist Craser—System of instruction for common schools.
- IX. John Henry Wichern—German reform schools.

6. **Cadet, Felix.** Lettres sur la pédagogie résumé du cours de l'hotel de ville. pp. 310. Paris, 1882.

7. **Charbonneau, Michel.** Cours théorique et pratique de pédagogie. pp. 480. Paris, 1882.

8. **Combe, George.** Education, its principles and practice. Edited by William Jolly. pp. lxxvi, 772. London, 1879.

- I. Education—its need and nature.
- II. An outline of the subjects that should be taught in our schools.
- III. The principles and practice of training and instruction.
- IV. Universal education of the people.
- V. National education.
- VI. Character, training and position of the teacher.

9. Donaldson, James. On the science of education. *In his Lectures on the history of education in Prussia, England, etc.*, p. 167.
10. Education, Lectures on. Delivered at the Royal Institution of Great Britain, by W. Whewell, Prof. Faraday and others. pp. 316. London, 1853.
- Republished and edited by Dr. Youmans as *Culture demanded by modern life*.
11. Emerson, Ralph Waldo. Education. *In his Lectures and biographical sketches*. Boston, 1884.
12. Farrar, F. W., *editor*. Essays on a liberal education. pp. 384. London, 1868.
- I. On the history of classical education, by C. S. Parker.
 - II. The theory of classical education, by Henry Sidgwick.
 - III. Liberal education in universities, by John Seeley.
 - IV. On teaching by means of grammar, by E. E. Bowen.
 - V. On Greek and Latin verse composition as a general branch of education, by F. W. Farrar.
 - VI. On teaching natural science in schools, by J. M. Wilson.
 - VII. The teaching of English, by J. W. Hales.
 - VIII. On the education of the reasoning faculties, by W. Johnson.
 - IX. On the present social results of classical education, by Lord Houghton.
- A work of permanent value which exerted a powerful influence on higher education at the time of its appearance. Out of print and scarce.
13. Hailmann, W. N. The new education. *In Education*, vol. v, p. 174.
14. Hart, John S. In the school-room; or, chapters in the philosophy of education. pp. 276. Philadelphia, 1882.
15. Hewett, Edwin C. A treatise on pedagogy for young teachers. pp. 336. New York, 1884.

16. Hill, Thomas. The true order of studies. pp. 163. New York, 1882.
17. Hoose, James H. On the province of methods of teaching. pp. 376. Syracuse, 1881.
18. Huntington, F. D. Unconscious tuition. Pamph. Syracuse, 1883.
19. Kenaston, G. F. The educational doctrines of Jacotot. *In Education*, vol. II, pp. 446, 565.
20. Krusi, Hermann. Pestalozzi: his life, work and influence. pp. 248. Cincinnati, n. d.

Part. I. Life of Pestalozzi. Part II. Associates of Pestalozzi. Part III. Extracts from the writings of Pestalozzi. Part IV. Principles and methods of Pestalozzi. Part V. Spread of the Pestalozzian system.
21. Mann, Horace. Lectures and annual reports on education. 2 vols. pp. 571, 758. Cambridge, 1867.
22. Mansfield, Edward D. American education, its principles and elements. pp. 330. New York, 1877.
23. Marcel, M. C. Premiers principes d'éducation avec leur application spéciale a l'étude des langues. pp. 455. Paris, n. d.
24. Mayhew, Ira. The means and ends of universal education. pp. 467. New York, n. d.
25. Natural science in secondary schools. Bureau of education circulars, 1882. Washington.
26. Ogden, John. The science of education; or, the philosophy of human culture. pp. 234. New York, n. d.



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27. **Payne, Joseph.** Lectures on the science and art of education, with other lectures and essays. Edited by Joseph Frank Payne. pp. 384. Boston, 1883.
28. ——— Pestalozzi: the influence of his principles and practice on elementary education. Pamph. New York, 1877.
29. **Payne, William H.** Contributions to the science of education. pp. 358. New York, 1886.
- I. Is there a science of pedagogics?
 - II. The science of education, its nature, its method, and some of its problems.
 - III. Contribution to the science of education values.
 - IV. The conceptions of mental growth and some applications of this doctrine to teaching.
 - V. The genesis of knowledge in the race.
 - VI. The mode of educational progress.
 - VII. Of the terms "Nature" and "Natural."
 - VIII. The potency of ideas and ideals.
 - IX. "Proceed from the known to the unknown."
 - X. Tribute to fetich worship.
 - XI. Lessons from the history of education.
 - XII. The secularization of the school.
 - XIII. Teaching as a trade and as a profession.
 - XIV. The teacher as a philanthropist.
 - XV. Education as a university study.
 - XVI. The normal school problem.
 - XVII. The institute and the reading circle.
30. **Perez, B. J. Jacotot et sa méthode d'émancipation intellectuelle.** pp. 210. Paris, 1883.
31. **Quain, Richard.** On some defects in general education; being the Hunterian oration of the royal college of surgeons for 1869. pp. 112. London, 1870.

32. Richardson, Benjamin Ward. National necessities and national education. *In* Popular science monthly, August, 1882.
33. Rollin. *Traité des études. Directions pédagogiques, recueillies par Félix Cadet et Eugène Darin.* pp. 254. Paris, 1882.
34. Rosenkranz, Johann Karl Friedrich. The philosophy of education. Translated by Anna C. Brackett. pp. xxviii, 286. New York, 1886.
35. ——— Pedagogics as a system and the science of education. Translated by Anna C. Brackett. pp. 148, 76. St. Louis, 1872.

Issued in 1886 in a much improved form as the Philosophy of education, *supra*.
36. Rosmini Serbati, Antonio. The ruling principle of method applied to education. Translated by Mrs. Wm. Grey. pp. xxv, 363. Boston, 1887.

An important work by one of the greatest Italian thinkers of recent times.
37. Schopenhauer, Arthur. Education. Translated by G. A. Hill. *In* Education, vol. I, p. 138.
38. Seguin, E. Report on education. pp. 215. Milwaukee, 1880.
39. Tate, T. The philosophy of education; or, the principles and practice of teaching. pp. 331. New York, 1885.

It is to be regretted that the American reprint of this excellent manual was not carefully revised and edited by a competent hand.
40. Waitz, Theodor. Allgemeine pädagogik und kleinere pädagogische schriften. Edited by Dr. Otto Willmann. pp. lxxix, 552. Braunschweig, 1883.

41. Watts, Isaac. Improvement of the mind. Edited by Stephen N. Fellows. pp. 200. New York, n. d.
42. White, Emerson E. The elements of pedagogy. pp. 336. Cincinnati, 1886.

See also the works on theory and practice of teaching, under the title Practice of teaching, etc.

IV.

PRACTICE OF TEACHING.

SCHOOL METHODS AND MANAGEMENT.

EXAMINATION PAPERS.

a. PRACTICE OF TEACHING.

1. Arey, Mrs. H. E. G. Home and school training. pp. 192. Philadelphia, 1884.
2. Atkinson, William P. On history and the study of history. Three lectures. pp. 107. Boston, 1884.
3. Calderwood, Henry. On teaching: its ends and means. pp. 126. London, 1881.
4. Compayre, Gabriel. Cours de pédagogie théorique et pratique. pp. 467. Paris, 1887.

5. **Conferences Pedagogiques**, Les, faites aux instituteurs délégués a l'exposition universelle de 1878. pp. 451. Paris, 1881.
Contains discussions on the following subjects:—
L'enseignement de la géographie dans l'école primaire, par M. E. Lévasseur.
L'enseignement de l'histoire dans l'école primaire, par M. Brouard.
L'enseignement de la langue Française, par Micheal Bréal.
Le mobilier de classe, le matériel d'enseignement et les musées scolaires, par M. de Bagnaux.
6. **Currie, James**. The principles and practice of common-school education. pp. 504. London, n. d.
7. **Dickinson, J. W.** Results of methods of teaching. *In* Education, vol. I, p. 105.
8. **Dunton, Larkin**. Oral instruction. *In* Education, vol. III, p. 404.
9. **Edgeworth, Maria, and Edgeworth, Richard Lovell**. Practical education. pp. 549. New York, n. d.
10. **Eve, H. W.; Sidgwick, Arthur, and Abbott, E. A.** Three lectures on subjects connected with the practice of education. pp. 96. London, 1883.
The lectures are—On marking, On stimulus, On the teaching of Latin verse composition.
11. **Farnham, George L.** The sentence method of teaching reading, writing and spelling. pp. xii, 67. Syracuse, 1881.
12. **Fernold, Fred. A.** How spelling damages the mind. *In* Popular science monthly, September, 1885.
13. **Fitch, J. G.** Lectures on teaching. pp. 436. Cambridge, 1883.

14. Freeman, Edward A. The methods of historical study. Eight lectures read in the University of Oxford in Michaelmas term, 1884, with the inaugural lecture on the office of the historical professor. pp. 335. London, 1886.

Inaugural lecture—The office of the historical professor.

1. History and its kindred studies.
2. The difficulties of historical study.
3. The nature of historical evidence.
4. Original authorities.
5. Classical and mediæval writers.
6. Subsidiary authorities.
7. Modern writers.
8. Geography and travel.

See a review of this work in Westminster review, October, 1886.

15. Giffin, Wm. M. How not to teach, with the way to teach. pp. 84. New York, n. d.
16. Gladman, F. J. School work. I. Control and teaching. II. Organization and principles of education. pp. 306, 234. London, 1885.
17. Grant, Horace. Arithmetic for young children. pp. 135. London, n. d.
18. Gregory, John M. The seven laws of teaching. pp. viii, 144. Boston, 1886.

Written for the use of Sunday-school teachers, but contains much that is of general interest.

19. Hall, G. Stanley, *editor*. Methods of teaching history. By Dr. G. Diesterweg, Professors Herbert B. Adams, C. K. Adams, John W. Burgess, E. Emerton, W. F. Allen and Mr. Thomas Wentworth Higginson. pp. 207 and 92. Boston, 1883.

See also The teaching of history, by J. R. Seeley, in Conference on education, (International health exhibition literature, vol. xv, p. 33); The teaching of politics in his Roman Imperialism, etc., etc., p. 306; and the papers by H. B. Adams on History in American colleges, in Education, vols. vi and vii.

20. Hall, G. Stanley, *editor*. Methods of teaching history. By A. D. White and others. Second edition. pp. xiv, 386. Boston, 1886.

The second edition entirely recast and rewritten. Diesterweg's Instruction in history has been omitted, but a number of papers by American and English teachers have been added which greatly increase the value and utility of the work. It is undoubtedly the best general manual of methods in this department of study which has thus far appeared.

21. ————— How to teach reading and what to read in school. Pamph. Boston, 1886.

22. Holbrook, M. L. How to strengthen the memory; or, natural and scientific methods of never forgetting. pp. 152. New York, n. d.

See the volume on The cultivation of the memory, in Manuals for teachers, No. 2.

23. Hopkins, Louisa P. How shall my child be taught? Practical pedagogy on the science of teaching, illustrated. pp. xii, 276. Boston, 1887.

A bright and suggestive work for the primary teacher.

24. Hughes, James L. How to secure and retain attention. pp. 86. New York, n. d.

25. ————— Mistakes in teaching. pp. 116. Des Moines, Iowa, n. d.

26. Jevons, W. S. Cram. *In Mind*, vol. II (1877), p. 193.

27. Johonnot, James. Principles and practice of teaching. pp. 395. New York, 1886.

28. Jost, G. Les congrès des instituteurs allemands. pp. 239. Paris, 1880.

29. Lancasterian system of the free school society of New York, Manual of the. pp. 63. New York, 1820.

Curious and interesting, as showing the practical working of the Lancasterian system.

30. Mann, Horace. Means and objects of common-school education. *In his* Lectures and annual reports on education, vol. I, p. 39.

31. Marcel, Claude. La raison contre la routine dans l'enseignement des langues. Pamph. Paris, 1873.

32. ——— Rational method, following nature step by step, to learn how to read, hear, speak and write French. pp. 209. New York, 1876.

33. Northend, Charles. The teacher and the parent: a treatise upon common-school education; containing practical suggestions to teachers and parents. pp. 327. New York, n. d.

34. Organization of elementary education.

See the papers and discussion, in Conference on education (International health exhibition literature, vol. XIII).

35. Page, David P. Theory and practice of teaching. Revised by W. H. Payne. pp. 358. New York, 1885.

36. Parke, Uriah. Lectures on the philosophy of arithmetic; and the adaptation of that science to the business purposes of life. pp. 395. Philadelphia, 1877.

37. Parker, Francis W. Talks on teaching. Edited by Lelia E. Patridge. pp. 182. New York, 1883.

38. Payne, William M. Practical education. *In* Education, vol. IV, p. 186.

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39. Richard, A. *Conseils pratiques aux instituteurs*. Pamph. Paris, 1882.
40. Rockwell, Julius Ensign. *The teaching, practice and literature of shorthand*. Bureau of education circulars, 1884. Washington.
41. Sauveur, L. *De l'enseignement des langues vivantes*. Pamph. New York, 1881.
42. ——— Introduction to the teaching of ancient languages. Pamph. Boston, 1878.
43. ——— Introduction to the teaching of living languages without grammar or dictionary. Pamph. Boston, n. d.
44. Seeley, J. R. *English in schools*. In *his* *Roman Imperialism and other lectures and essays*, p. 230.
45. Thery, A. *Lettres sur la profession d'instituteur*. pp. 418. Paris, 1882.
46. Thorpe, Francis Newton. *A plea for the study of American institutions in American schools*. In *Education*, November and December, 1886.
47. Thring, Edward. *Education and school*. pp. xvi, 278. London, 1867.
48. ——— *Theory and practice of teaching*. pp. 256. Cambridge, 1883.
49. Trumbull, H. Clay. *Teaching and teachers; or, the Sunday-school teacher's work and the other work of the Sunday-school teacher*. pp. 390. Philadelphia, 1885.

b. SCHOOL METHODS AND MANAGEMENT, AND TEACHERS'
MANUALS.

1. Baldwin, J. The art of school management. pp. 504. New York, 1882.
2. Blakiston, J. R. The teacher: hints on school management. pp. 91. London, 1879.
3. Brooks, Edward. Normal methods of teaching. pp. 504. Lancaster, 1883.
4. Course of instruction in the grammar schools of Philadelphia, with syllabuses. pp. 88. Philadelphia, 1887.
5. Course of instruction in the secondary schools of Philadelphia, with syllabuses. Philadelphia, 1887.
6. Course of instruction in the primary schools of Philadelphia, with syllabus. pp. 79. Philadelphia, 1884.
7. Fearon, D. R. School inspection. pp. 93. London, 1876.
8. Gill, John. Introductory text-book to school education, method and school management. pp. 276. London, 1881.
9. Hale, E. E. Half-time in schools. *In* North American review, Nov., 1884.
10. Hodge, Archibald A. Religion in the public schools. *In* New Princeton review, January, 1887.

An elaborate article in defense of the right and duty of the state to teach religion in the public schools.

11. Inspection and examination of schools.

See the papers and discussions, in Conference on education (International health exhibition literature, vol. xiii).

12. Joyce, P. W. A hand-book of school management and methods of teaching. pp. 221. London, 1872.

13. Kellogg, Amos M. School management: a practical guide for the teacher in the school-room. pp. 124. New York, 1884.

14. Kiddle, Henry; Harrison, Thomas F., and Calkins, N. A. How to teach: a graded course of instruction and manual of methods for the use of teachers. pp. 269. Cincinnati, n. d.

15. King, W. J. Treasury of facts: a cyclopædia of natural and mathematical science; with the art and science of teaching. pp. 167. New York, 1884.

16. Landon, Joseph. School management; including a general view of the work of education. pp. xxi, 376. Boston, 1884.

17. MacAlister, James. Syllabus of a course of elementary instruction in United States history and civil government. pp. 44. Philadelphia, 1887.

18. Mann, Horace. School punishment. A lecture *in his* Lectures and annual reports on education, vol. i, p. 333.

19. Manual of discipline and instruction, A, for the use of the teachers of the grammar schools under the charge of the board of education of the city of New York. pp. 207. New York, 1884.

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20. Manual of discipline and instruction, A, for the use of the teachers of the primary schools under the charge of the board of education of the city of New York. pp. 149. New York, 1884.
21. Manuals for teachers. 5 vols. Philadelphia, 1879.
- No. 1. The cultivation of the senses. pp. 96.
 - No. 2. The cultivation of the memory. pp. 64.
 - No. 3. On the use of words. pp. 96.
 - No. 4. On discipline. pp. 86.
 - No. 5. On class teaching. pp. 54.
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23. Orcutt, Hiram. School-keeping, how to do it. pp. 244. Boston, 1885.
24. Patridge, Lelia E. The "Quincy Methods" illustrated. pp. xv, 660. New York, 1885.
25. Payne, William H. Chapters on school supervision. pp. 215. New York, n. d.
26. Phelps, Wm. F. The teacher's hand-book for the institute and the class-room. pp. 335. New York, n. d.
27. Pillans, James. Rationale of discipline. Chap. II, *in his* Contributions to the cause of education, p. 337.
28. Prince, John J. School management and method in theory and practice. pp. 296. London, 1886.
29. Prince, John T. Courses and methods: a hand-book for teachers of primary, grammar, and ungraded schools. pp. 344. Boston, 1886.

The best outline of methods for the use of teachers in elementary schools. Fully up to the most advanced ideas, and thoroughly practical in all its suggestions,

30. Raub, Albert N. *Methods of teaching, including the nature, object, and laws of education, methods of instruction, and methods of culture.* pp. 415. Lock Haven, Pa., 1884.
31. ——— *School management.* pp. 285. Lock Haven, Pa., 1885.
32. Shaw, Edward R., and Donnell, Webb. *School devices: a book of ways and suggestions for teachers.* pp. 217. New York, 1886.
33. Swett, John. *Methods of teaching.* pp. 326. New York, 1883.
34. *Suggestions to the managers of public elementary schools, by the Liverpool school board.* pp. 94. London, 1881.
35. *Teachers' manuals to the American text-books of art education, parts I, II and III; and manual for the primary course of instruction.* Boston, 1883.
36. Wentworth, G. A., and Reed, E. M. *The first steps in number. Teachers' edition.* pp. 474. Boston, 1885.
37. Wickersham, James Pyle. *Methods of instruction.* pp. 496. Philadelphia, n. d.
38. ——— *School economy. A treatise on the preparation, organization, employments, government and authorities of school.* pp. 381. Philadelphia, n. d.

c. QUESTIONS AND EXAMINATION PAPERS.

1. Buisson, F. *Devoirs d'écoliers Américains.* Translated by A. Legrand. pp. 508. Paris, 1881.

This book was published as a supplement to Buisson's *Rapport sur l'instruction primaire à l'exposition universelle de Philadelphie, 1876*; and contains translations of specimens of the pupils' work exhibited.

2. Cambridge local examinations. 4 Pamphlets :

Examination papers, 1882 ;

Higher local examinations ;

Examination papers, 1883 ;

Twenty-fifth annual report of the syndicate.

3. McLellan, J. A., and Kirkland, Thomas. Examination papers in arithmetic. pp. 290. Toronto, 1877.

4. ——— Hints and answers to examination papers in arithmetic. pp. 86. Toronto, 1881.

5. Oxford and Cambridge, school examination board, Regulations of the, 1882 and 1884. Pamphlets.

6. Oxon, *pseud.* Examination questions on English history, with 4,900 references to standard works where the answers may be found. pp. 198. London, 1885.

7. Pratt, Daniel J., *compiler.* The regents' questions, 1866 to 1878. Being the questions for the preliminary examinations for admission to the university of the state of New York, prepared by the regents of the university. pp. 218. Syracuse, 1878.

8. Shaw, Edward R. The national question book. A graded course of study for teachers and those preparing to teach. pp. 331. New York, 1887.

9. Teachers' training syndicate—university of Cambridge ; examination for certificates, 1883. Pamph. London, 1883.

V.

PRIMARY EDUCATION AND STUDY OF
CHILDREN.

1. Buest, F. The fundamental thoughts of Pestalozzi and Froebel and their relation to primary schools. Translated by Marion Talbot. *In Education*, vol. III, p. 42.
2. Buisson, F. Rapport sur l'instruction primaire à l'exposition universelle de Philadelphie en 1876. pp. 688. Paris, 1878.
3. ——— Rapport sur l'instruction primaire à l'exposition universelle de Vienne en 1873. pp. 349. Paris, n. d.
4. Chalamet, R.-El. L'école maternelle étude sur l'éducation des petits enfants. pp. 316. Paris, 1883.
5. Combe, Andrew. The management of infancy, physiological and moral. Revised and edited by Sir James Clark. pp. 302. New York, 1871.
6. Comment élever nos enfants? * * * pp. 368. Paris, n. d.
7. Currie, James. The principles and practice of early and infant-school education, with an appendix of infant-school hymns and songs, with appropriate melodies. pp. 310. London, n. d.

8. Darwin, Charles. Biographical sketch of an infant. *In* Mind, vol. II (1877), p. 285.

An important and valuable study.

9. Dillon, *Madame*. Infant schools in France. *In* Conference on education (International health exhibition literature, vol. XIII, p. 136).

10. Donaldson, James. On the aim of primary education. *In his* Lectures on the history of education in Prussia, England, etc., p. 98.

11. Dupanloup, *Monseigneur*. The child. Translated by Kate Anderson. pp. 294. Boston, 1875.

A study of child nature from the Catholic standpoint.

12. Hailmann, W. N. Froebel's principles in primary schools. *In* Education, vol. v, p. 605.

13. Hale, Sarah J. Infant school management; with notes of lessons on objects and on the phenomena of nature and common life. pp. 264. London, 1886.

14. Hall, G. Stanley. The contents of children's minds. *In* Princeton review, May, 1882.

See Dr. Hall's report on child-study in Proceedings of national council of education, 1885, and J. M. Greenwood's paper on What children know, in Proceedings of the national teachers' association for 1884, p. 195.

15. Higginson, T. W. The murder of the innocents. *In* Atlantic monthly, vol. IV, p. 345.

16. Infant training and teaching.

See the papers and discussions, in Conference on education (International health exhibition literature, vol. XIII).

17. Johnson, Anna. Education by doing; occupations and busy work for primary classes. pp. 109. New York, 1884.

18. Laurie, S. S. Primary instruction in relation to education. pp. 250. London, 1883.

See also the paper, Primary instruction, *in his* Training of teachers and other educational papers.

19. Milliken, D. Infantile pedagogy, from the physiological standpoint. *In* Education, vol. VI, p. 169.

20. Perez, Bernard. The first three years of childhood. Edited and translated by Alice M. Christi  . pp. 292. Chicago, 1885.

See a notice of this book by F. Pollock, *in* Mind, vol. III, p. 546.

See also H. Taine's paper on the acquisition of language by children, *in* Mind, vol. II, p. 252, and Charles Darwin's biographical sketch of an infant, *ibid*, p. 285.

21. Powers, M. A. About the minds of little children. *In* Education, vol. VI, p. 26.

22. Primary Teacher, The. A monthly magazine devoted to the interests of primary instruction in America. 1877-1883, 6 vols. (Discontinued in 1883). Boston.

23. Putnam-Jacobi, Mary. An experiment in primary education. *In* Popular science monthly, August and September, 1885.

See the controversy growing out of these papers between Dr. Jacobi and Miss Youmans, *in* the same magazine for October, 1885, and Jan., 1886.

24. Richards, Z. The true order of studies in primary instruction, and the proper time for each. *In* Education, vol. III, pp. 113, 221.

See the papers on the same subject by Mrs. J. H. Baird, *ibid*, pp. 439, 605.

25. Rousselot, Paul. *L'école primaire; essai de pédagogie élémentaire.* pp. 125. Paris, 1882.
 26. ——— *Pédagogie a l'usage de l'enseignement primaire.* pp. 537. Paris, 1883.
 27. Scudder, Horace E. *Childhood in modern literature and art.* *In Atlantic monthly*, December, 1885.
 28. Taine, H. *The acquisition of language by children.* (Translated). *In Mind*, vol. II (1877), p. 252.
 29. Wilderspin, Samuel. *The infant system for developing the intellectual and moral powers of all children, from one to seven years of age.* pp. 351. London, 1852.
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VI.

OBJECT LESSONS.

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See the volume On the cultivation of the senses, in Manuals for teachers, No. 1.

2. Calkins, N. A. *Manual for teachers. To accompany Prang's aids for object teaching, trades and occupations.* Pamph. Boston, 1881.
3. ——— *Manual of object teaching, with illustrative lessons in methods and the science of education.* pp. 469. New York, 1882.
4. ——— *Primary object lessons.* pp. 448. New York, 1882.

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5. De Graff, Esmond V., *and* Smith, Margaret K. Development lessons for teachers on size, form, place, plants and insects; with lectures on the science and art of teaching. pp. 301. New York, 1883.
 6. Gill, John. The art of teaching young minds to observe and think. Fully illustrated by sketches and notes of lessons. pp. 208. London, 1880.
 7. Glashaw, J. C. School culture of the observing faculties. *In* Popular science monthly, December, 1884.
 8. Grant, Horace. Arithmetic for schools and families. pp. 350. London, 1861.
 9. ——— Exercises for the improvement of the senses. For young children. pp. 157. Boston, 1886.
 10. Guthrie, Frederick. The first book of knowledge. pp. 130. New York, 1883.
 11. Sheldon, E. A., *and others*. A manual of elementary instruction, for the use of public and private schools, and normal classes. pp. 471. New York, 1883.
 12. Walker, J. The handy book of object lessons, from a teacher's note-book. pp. 129. Philadelphia, 1884.
 13. Willson, Marcius. A manual of information and suggestions for object lessons, in a course of elementary instruction. pp. 336. New York, 1882.
 14. Wilson, George. The five gateways of knowledge. pp. 127. London, 1881.

VII.

THE KINDERGARTEN.

1. Ames, Charles G. Free kindergartens. Pamph. Philadelphia, 1884.
2. Barnard, Henry, *editor*. Papers on Froebel's kindergarten, with suggestions on principles and methods of child culture in different countries. Republished from the American journal of education. pp. 758. Hartford, 1881.
 - Contains the following papers:—
 - I. Froebel and his educational work.
 1. Memoir of Frederick August Froebel.
 2. Aids to the understanding of Froebel.
 - II. Froebel's educational system.
 1. Educational views as expounded by Middendorff, Diesterweg and Marenholtz-Bülow.
 2. The child nature and nurture, according to Froebel.
 - III. Kindergarten and child culture.
 1. The progressive improvement of manuals and methods.
 2. Kindergarten work in different countries.
 3. Examples of training institutes and kindergartens.
 - IV. Papers in elucidation of Froebel's system.
3. Hailman, W. N. Four lectures on early child-culture. Pamph. Milwaukee, 1880.
4. ——— Kindergarten culture in the family and kindergarten: a complete sketch of Froebel's system of early education, adapted to American institutions. pp. 119. New York, n. d.

5. Hughes, James. The kindergarten, its place and purpose. Pamph. New York, 1877.
6. Kraus-Boelte, Maria. The kindergarten and the mission of woman ; my experience as trainer of kindergarten teachers in this country. Pamph. New York, 1887.
7. Kraus-Boelte, Maria, and Kraus, John. The kindergarten guide. An illustrated hand-book designed for the self-instruction of kindergartners, mothers and nurses. pp. 453. New York, 1881.
First volume, The gifts. All, so far published.
8. Kriege, Alma L. Rhymes and tales for the kindergarten and nursery. pp. 109. New York, 1876.
9. Kriege, Matilda H. The child, its nature and relations: an elucidation of Froebel's principles of education. A free rendering of the German of von Marenholtz-Bülow. pp. 148. New York, 1877.
10. Lyschinska, Mary J. The kindergarten principle: its educational value and chief applications. pp. 173. London, 1884.
11. MacAlister, James. Free kindergartens. Speech on the transfer of the sub-primary school society's kindergartens to the board of public education, Philadelphia. Pamph. Philadelphia, 1887.
12. Mann, Mary. Moral culture of infancy. New York, 1877.
In same volume with Peabody's Guide.
13. Manning, Miss. What Froebel did for young children. In Conference on education (International health exhibition literature, vol. XIII, p. 78).

14. **Marenholtz-Bulow, Baroness B. von.** Hand work and head work. Their relation to one another and the reform of education, according to the principles of Froebel. Translated by Alice M. Christié. pp. 144. London, n. d.
15. ——— Reminiscences of Friedrich Froebel. Translated by Mrs. Horace Mann. With a sketch of the life of Friedrich Froebel, by Emily Shirreff. pp. 359. Boston, 1882.
16. ——— The child and child nature. pp. 186. London, 1884.
17. ——— The new education by work, according to Froebel's method. Translated by Mrs. Horace Mann, and Prof. Noa. pp. 169. Camden, 1876.
18. **Merry songs and games for the use of the kindergarten.** Selected and compiled by Clara Beeson Hubbard. pp. 104. New York, n. d.
19. **Meyer, Bertha von.** Aids to family government; or, from the cradle to the school, according to Froebel. Translated by M. L. Holbrook. pp. 208. New York, n. d.
20. **Newton, Rev. R. Heber.** The bearing of the kindergarten on the prevention of crime. Pamph. St. Paul, 1886.
21. ——— The free kindergarten in church work. *In his Social studies*, p. 213.

A sympathetic exposition of the philosophy and practical benefits of the kindergarten.

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22. Peabody, Elizabeth P., and Mann, Mary. Guide to the kindergarten and intermediate class, and Moral culture of infancy. pp. 206. New York, 1877.
23. Peabody, Elizabeth P. Lectures in the training schools for kindergartners. pp. 226. Boston, 1886.
24. ——— The origin and growth of the kindergarten. *In* Education, vol. II, p. 507.
- See also* her plea for Froebel's kindergarten as the first grade of primary education, in appendix to Cardinal Wiseman's lecture on the artisan and artist.
25. Report of the proceedings connected with the transfer of the kindergartens under the care of the sub-primary school society to the board of public education, Philadelphia. Pamph. Philadelphia, 1887.
26. Shirreff, Emily. Essays and lectures on the kindergarten; principles of Froebel's system and their bearing on the higher education of women, schools, family and industrial life. With an appendix by Elizabeth P. Peabody. pp. 187. New York, 1883.
27. ——— The claim of Froebel's system to be called "The new education." Pamph. New York, 1877.
28. Wiebe, Edward. The paradise of childhood: a manual for self-instruction in Friedrich Froebel's educational principles and a practical guide to kindergartners. pp. 83, and lxxiv plates. Springfield, n. d.

VIII.

MORAL EDUCATION AND SCHOOL
DISCIPLINE.

1. **Abbott, Jacob.** Gentle measures in the management and training of the young. pp. 330. New York, n. d.
2. **Adler, Felix.** A secular view of moral training. *In* North American review, May, 1883.
3. **Arnold, Matthew.** The great prophecy of Israel's restoration (Isaiah, chapters 40-66). Arranged and edited for young learners. pp. xxxvi, 65. London, 1875.
4. **Coignet, Mme.** La morale dans l'éducation. pp. 288. Paris, 1883.
5. **Compayre, Gabriel.** Éléments d'instruction morale et civique. pp. 207. Paris, 1884.
Contents.—I. The family and school; II. Society and country; III. Human nature and morality; IV. Political society.
6. **Discipline of the school, The.** Bureau of education circulars, 1881. Washington.
7. **Gow, Alex. M.** Good morals and gentle manners. For schools and families. pp. 252. New York, n. d.
8. ——— The primer of politeness. A help to school and home government. pp. 216. Philadelphia, n. d.

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9. Greard, M. The spirit of discipline in education. Translated by Marion Talbot. *In Education*, vol. v, pp. 134, 259.
 10. Hailmann, W. N. What moral results should common school training give? *In Education*, vol. iv, p. 415.
 11. Hall, G. Stanley. The moral and religious training of children. *In Princeton review*, January, 1882.
 12. Harris, William T. Moral education in the public schools. Pamph. New York, 1877.
 13. Howland, George. Moral training in our public schools. *In Education*, vol. i, p. 144.
 14. Jewell, Frederick S. School government. pp. 308. New York, n. d.
 15. Kay, David. Education and religion. *In his Education and educators*, chap. vi.
 16. Kennedy, John. The school and the family: the ethics of school relations. pp. 205. New York, 1878.
 17. Mezieres, M. A. Éducation morale et instruction civique à l'usage des écoles primaires. pp. 176. Cours moyen et supérieur. Paris, 1883.
 18. Rosenkranz, J. K. F. Education of the will. Chaps. 12-18, part II of his *Philosophy of education*.
 19. Smiles, Samuel. Character. pp. 387. New York, n. d.
 20. ———. Duty, with illustrations of courage, patience and endurance. pp. 412. New York, n. d.
 21. ———. Thrift. pp. 404. New York, n. d.

22. Timmins, *Rev. Thomas*. The history of the founding, aims and growth of the American bands of mercy. Pamph. Boston, 1883.
23. Wilson, J. M. Morality in public schools and its relation to religion. Pamph. London, 1882.

See the volume On discipline, in Manuals for teachers, No. 4.

See Part III of Landon's School management, which is devoted to discipline and moral training; chap. III (on moral education) in Herbert Spencer's Education; chap. IV (on discipline) in Fitch's Lectures on teaching; the chapters on moral education and discipline in Currie's Common school education; chap. x. (on school government) in Page's Theory and practice of teaching; and chap. XI (some remarks about moral and religious education) in Quick's Educational reformers.

IX.

PHYSICAL EDUCATION.

SCHOOL HYGIENE. GENERAL HYGIENE.

VOCAL CULTURE AND HYGIENE.

a. PHYSICAL EDUCATION.

1. Betz, Carl. A system of physical culture; designed as a manual of instruction for the use of schools. pp. 66. Kansas City, Mo., 1886.

2. Blaikie, William. How to get strong and how to stay so. pp. 296. New York, 1879.
3. Breal, Michel. Les exercices physiques (Germany). *In his* Excursions pédagogiques, p. 119.
4. Bruce, A. T. Physical education. *In* Education, vol. VI, p. 499.
5. Hartelius, T. J. Home gymnastics. Translated by C. Löfving. pp. 94. Philadelphia, 1883.
6. Kingsley, Charles. Health and education. pp. 411. New York, 1884.
7. Kohlrausch, C. Physical training and gymnastics in Germany. Translated by Marion Talbot. *In* Education, vol. II, p. 383.
8. Lofving, Concordia. On physical education and its place in a rational system of education. pp. 67. London, 1882.
9. Lyttelton, E., and Cobb, Gerard F. Athletics. [International health exhibition hand-books.] Pamph. London, 1884.
10. MacAlister, James. Physical education. An address delivered before the Philadelphia turngemeinde. Pamph. Philadelphia, 1886.
11. MacLaren, Archibald. A system of physical education, theoretical and practical. pp. 516. Oxford, 1869.

Part I. Growth and development. Part II. Practical system of gymnastic exercises.

Part I contains the best discussion of the general question of physical education which has yet been written.

12. Oswald, Felix L. Physical education; or, the health laws of nature. pp. 257. New York, 1883.
13. Roth, M. Hand-book of the movement cure; a description of the positions, movements and manipulations used for preventative and curative purposes, according to the system of Ling and the works of Rothstein, Neumann, and others. pp. 368. London, 1856.
14. Sargent, D. A. Physical education in colleges. *In* North American review, February, 1883.
15. Warre, E. Athletics; or, physical exercise and recreation. [International health exhibition hand-books.] Pamph. London, 1884.

b. SCHOOL HYGIENE.

1. Berners, J. First lessons on health. pp. 86. London, 1876.
2. Blaikie, William. Sound bodies for our boys and girls. pp. 168. New York, 1884.
3. Buxton, Sydney. Over-pressure and elementary education. pp. 124. London, 1885.
4. Cohn, H. The hygiene of the eye in schools. Translated by W. P. Turnbull. pp. 236. London, 1886.
Dr. Cohn is the highest authority on this subject.
5. Combe, Andrew. The principles of physiology, applied to the preservation of health and to the improvement of physical and mental education. pp. 291. New York, 1836.

6. Conditions of healthy education.

Papers and discussions, in Conference on education (International health exhibition literature, vol. XIII).

7. Hartwell, Edward Mussey. Physical training in American colleges and universities. Bureau of education circulars, 1885. Washington.

8. Hertel, Dr. Over-pressure in high schools in Denmark. Translated from the Danish by C. Godfrey Sörensen, with introduction by J. Crichton-Browne. pp. 148. London, 1885.

9. Irving, Washington. Rip Van Winkle. pp. 73. New York, 1885.

Printed for hygienic reasons, on pale green paper, in deep blue ink. This combination of colors has been pronounced by competent authorities the least injurious to the eyesight.

10. Lewis, Dio. The new gymnastics for men, women and children. pp. 286. New York, 1886.

11. Lincoln, D. F. School and industrial hygiene. pp. 152. Philadelphia, 1880.

12. Paget, Charles E. Healthy schools. [International health exhibition hand-books]. pp. 72. London, 1884.

13. Philbrick, John D. Over-work in school. *In* Education, vol. VI, p. 330.

14. Physical education.

See the papers and discussion, in Conference on education (International health exhibition literature, vol. XIII).

15. Risley, S. D. Weak eyes in the public schools of Philadelphia. The report of the committee on examination of the eyes of the children in the public schools of Philadelphia. Pamph. Philadelphia, 1881.

16. Root, N. W. Taylor. School amusements; or, how to make the school interesting. pp. 225. New York, 1877.
17. School hygiene, Six lectures upon. pp. 201. Boston, 1885.
18. School life and eyesight. *In* Popular science monthly, vol. I, p. 760.
19. Warre, E. Athletics or physical exercises and recreation [International health exhibition hand-books]. pp. 94. London, 1884.
20. Watson, J. Madison. Hand-book of calisthenics and gymnastics. With music. pp. 388. New York, 1882.

c. GENERAL HYGIENE.

1. Du Bois-Raymond, Emil. The physiology of exercise. *In* Popular science monthly, July and August, 1882.
2. Griscom, John H. The uses and abuses of air. pp. 252. New York, 1850.
3. Gustafson, Axel. The foundation of death; study of the drink question. pp. 582. Boston, 1884.
4. Jeffries, B. Joy. Color blindness: its dangers and its detection. pp. 329. Boston, 1883.
5. ——— Our eyes and our industries. Pamph. Boston, 1884.
6. Lee, Benjamin. The organization of local boards of health in Pennsylvania. Read at a meeting of the Philadelphia social science association, January 28, 1886. Pamph. Philadelphia, 1886.

7. Leeds, Lewis W. A treatise on ventilation. pp. 226. New York, 1882.
8. Parkes, Edmund A. A manual of practical hygiene. Edited by F. S. B. François de Chaumont. pp. 731. Philadelphia, 1883.
The most complete work on the subject.
9. Reade, A. Arthur. Study and stimulants. pp. 227. London, 1883.
10. Richards, Ellen H. The chemistry of cooking and cleaning. pp. 90. Boston, 1882.
11. Richardson, Benjamin Ward. Diseases of modern life. pp. 520. New York, 1880.
12. Smith, Edward. Foods. pp. 485. New York, 1881.
13. ——— Health. pp. 198. New York, 1880.
14. Thompson, Sir H. Diet in relation to age and activity. pp. 94. London, 1886.
15. Wight, O. W. Maxims of public health. pp. 176. New York, 1884.

d. VOCAL CULTURE AND HYGIENE. SINGING. ELOCUTION.

1. Bach, Albert B. The principles of singing: a practical guide for vocalists and teachers. pp. 305. London, 1885.
2. ——— The art of singing. pp. 155. Edinburgh, 1886.
3. Behnke, Emil, and Browne, Lenox. The child's voice: its treatment with regard to after development. pp. 109. Chicago, 1885.

4. Holmes, Gordon. A treatise on vocal physiology and hygiene, with especial reference to the cultivation and preservation of the voice. pp. 278. London, 1881.
5. Holt, H. E. Music in public schools. *In Education*, vol. iv, p. 262.
6. Legouve, Ernest. Reading as a fine art. Translated by Abby Langdon Alger. pp. 97. Boston, 1879.
7. ——— The art of reading. Translated and illustrated by Edward Roth. pp. 372. Philadelphia, 1885.
8. Mackenzie, Morell. The hygiene of the vocal organs: a practical hand-book for singers and speakers. pp. 223. London, 1886.
9. Meyer, Georg Hermann von. The organs of speech and their application in the formation of articulate sounds. pp. 349. New York, 1884.
10. Murdoch, James E. Analytic elocution; containing studies, theoretical and practical, of expressive speech. pp. 504. Cincinnati, n. d.
11. Music in public schools, The study of. Bureau of education circulars, 1886. Washington.
12. Seiler, Emma. The voice in singing. Translated by W. H. Furness. pp. 192. Philadelphia, 1884.
13. ——— The voice in speaking. Translated by W. H. Furness. pp. 164. Philadelphia, 1875.
14. Teaching of music in schools.

See the papers and discussion, in Conference on education (International health exhibition literature, vol. XIII).

X.

EDUCATION OF THE BLIND AND
DEAF-MUTES.

1. Anagnos, M. Education of the blind : historical sketch of the origin, rise and progress. Pamph. Boston, 1882.
2. Binner, Paul. The dumb speak. pp. 27. Milwaukee, 1881.
3. Causes of deafness among school children and its influences on education. Bureau of education circulars, 1881. Washington.
4. Deaf-mute instruction. Washington, 1885.

Aural instruction of the deaf. J. A. Gillespie.

Deaf-mute instruction in relation to the work of the public schools. A. G. Bell.

Historical experiments in associated education.
5. Lamson, Mary Swift. Life and education of Laura Dewey Bridgman, the deaf, dumb and blind girl. pp. 373. Boston, 1881.

XI.

TRAINING OF TEACHERS—NORMAL
SCHOOLS.

1. Craig, A. R. The philosophy of training; or, the principles and art of a normal education; with a brief review of its origin and history. pp. xx, 377. London, 1847.
2. Hunter, Thos. Normal schools: their necessity and growth. *In Education*, vol. v, p. 235.
3. Laurie, S. S. The training of teachers, and other educational papers. pp. 369. London, 1882.

The other papers are:—
Primary instruction.
Secondary or high schools.
Montaigne as an educationalist.
The educational wants of Scotland.
Authority in relation to discipline.
Sketch of the history of the education department (of England).
4. Mann, Horace. Special preparation a pre-requisite to teaching. *In his Lectures and annual reports on education*, vol. I, p. 89.
5. Morgan, T. J. What is the true function of the normal school? *In Education*, vol. VI, p. 1.

6. Stow, David. The training system of education, including normal school training for large towns and normal seminary for training teachers to conduct the system. pp. 564. London, 1859.
 7. Training of teachers.
Papers and discussions, in Conference on education (International health exhibition literature, vol. xvi).
 8. Training of teachers in Germany, The. Bureau of education circulars, 1878. Washington.
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XII.

SELF-CULTURE AND HOME EDUCATION.

1. Arey, Mrs. H. E. G. Home and school training. pp. 192. Philadelphia, 1884.
2. Blackie, John Stuart. On self-culture: intellectual, physical and moral. A vade mecum for young men and students. pp. 112. New York, n. d.
3. Clarke, James Freeman. Self-culture: physical, intellectual, moral and spiritual. pp. 446. Boston, 1883.
4. Eggleston, Geo. Cary. How to educate yourself; with or without masters. pp. 151. New York, n. d.

5. Martineau, Harriet. Household education. pp. 366. Boston, 1883.
 6. Taylor, Isaac. Home education. pp. 380. London, 1838.
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XIII.

COLLEGE AND UNIVERSITY EDUCATION AND STUDIES.

1. Adams, Charles Francis. A college fetich. Pamph. Boston, 1884.
2. Adams, H. B. History in American colleges. A series of papers in Education.
 - I. Harvard university; vol. vi, pp. 535, 618.
 - II. Columbia college; vol. vii, pp. 7, 92.
 - III. Amherst college; vol. vii, p. 177.
 - IV. Yale university; vol. vii, p. 334.
3. Anon. A teaching university of London. *In* Edinburgh review, July, 1886.
4. Anon. Classical studies, as information or as training. By a Scotch graduate. Pamph. New York, 1872.

5. Arnold, Matthew. Literature and science. *In his Discourses in America*, p. 72.
6. Bain, Alexander. The university ideal—past and present. *In his Practical essays*, p. 176.
7. Barnard, F. A. P. Annual report of the president of Columbia college for 1882.
8. Bigot, C. Les réformes de l'enseignement secondaire. *In Revue politique et littéraire*, October 2, 1886.
9. Bryn Mawr college, Inauguration of. Addresses by Presidents James E. Rhoads, D. C. Gilman (Johns Hopkins), and Thomas Chase (Haverford). Philadelphia, 1886.
10. Comfort, George F. Modern languages in education. Pamph. Syracuse, 1886.
11. Cooke, Josiah P. Further remarks on the Greek question. *In Popular science monthly*, October, 1884.
12. ——— The new requirements for admission to Harvard college. *In Popular science monthly*, December, 1886.
13. Donaldson, James. On the relation of the universities to the working classes. *In his Lectures on the history of education in Prussia, England, etc.*, p. 125.
14. Eggert, C. A. Modern languages and the college. *In Education*, vol. iv, p. 527.
15. ——— The problem of higher education. *In Popular science monthly*, November, 1885.
16. Eliot, Charles W. Annual report of the president of Harvard college for 1883-84 and 1884-85.

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17. Elliott, A. M. Modern languages as a college discipline. *In Education*, vol. v, p. 49.
18. Farrar, F. W. On Greek and Latin verse-composition as a general branch of education. *In his Essays on a liberal education*, p. 205.
19. Frary, Raoul. La question du Latin. pp. 321. Paris.
See notice of this work, in Education, vol. vi, p. 405.
20. Gilman, D. C. Present aspects of college training. *In North American review*, June, 1883.
21. Hamerton, Philip Gilbert, and others. Higher education—a symposium. pp. 120. New York, n. d.
International communication by language. Gilbert Hamerton.
The reform in higher education. Anon.
Upper schools. President McCosh.
Study of the Greek and Latin classics. Charles Elliott.
The university system in Italy. Angelo de Gubernatis.
And other papers.
22. Helmholtz, H. On academic freedom in German universities. *In Popular scientific lectures*, second series.
23. Hoffman, Franz. Idea of a university. *In Penn monthly*, Oct. 1872.
24. Hofmann, August Wilhelm. The question of a division of the philosophical faculty. Pamph. Boston, 1883.
25. Huxley, Thomas Henry. Universities actual and ideal. *In his Science and culture, and other essays*,

26. James, E. J. The classical question in Germany. *In* Popular science monthly, January, 1884.
27. ——— Present status of the Greek question. *In* Popular science monthly, May, 1887.
28. ——— Instruction in political and social science. Pamph. 1885.
29. Johnson, Rossiter. College endowments. *In* North American review, May, 1883.
30. Latham, Henry. On the action of examinations considered as a means of selection. pp. xx, 544. Cambridge, 1877.
- Discusses the following topics :—
General view of the action of examinations.
Historical notices: disputations.
The Cambridge mathematical tripos.
The functions of examination.
Examinations as a test of knowledge.
Prize emoluments in education.
Examinations for college fellowships and scholarships.
On marking and classing.
Proposed changes with respect to fellowships in college statutes.
On fellowships as ladders.
31. Levermore, C. H. The "new education" run mad. *In* Education, vol. VI, p. 290.
32. Lowell, James Russell. Address delivered on the two hundred and fiftieth anniversary of the foundation of Harvard university. *In* his Democracy and other addresses.

33. McCosh, James. The course of study in Princeton college. *In Education*, vol. v, p. 353.
34. ——— The new departure in college education. Pamph. New York, 1885.
35. ——— What an American university should be. *In Education*, vol. vi, p. 35.
36. McElroy, J. G. R. The requirements in English for admission to college. *In Transactions of modern language association of America*, vol. i.
See also English in schools, in J. R. Seeley's *Roman Imperialism*, etc., p. 230.
37. Mill, John Stuart. Inaugural address delivered to the university of St. Andrews, February 1, 1867. pp. 48. London, n. d.
See also his review of Prof. Sidgwick's discourse on The studies of the university of Cambridge, in *Dissertations and discussions*, vol. i, p. 121.
38. Morris, E. P. The study of Latin in the preparatory course. Pamph. Boston, 1886.
39. Mulford, Elisha. The object of a university. *In Atlantic monthly* for December, 1886.
40. Newman, Cardinal John Henry. The idea of a university defined and illustrated. In nine discourses delivered to the Catholics of Dublin, and occasional lectures and essays addressed to the members of the Catholic university. pp. xxii, 527. London, 1885.
41. Newton, James K. A criticism of the classical controversy. *In Education*, vol. v, p. 496.

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42. Nightingale, A. F. A hand-book of requirements for admission to the colleges of the United States. pp. 61. New York, 1879.
43. Organization of intermediate and higher education. Papers and discussions. *In* Conference on education (International health exhibition literature, vol. XVI).
44. Organization of university education.
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45. Palmer, G. H. The possible limitations of the elective system. *In* Andover review, December, 1886.
46. Payne, W. H. Education as a university study. *In his* Contributions to the science of education, chap. xv, and the study of education in the university of Michigan, appendix to same work.
47. Peabody, A. P. The study of Greek. *In* Atlantic monthly, January, 1884.
48. Pillans, James. Three lectures on the relative importance of classical training in the education of youth. *In his* Contributions to the cause of education, p. 251.
These lectures set forth the views entertained by an able writer on education fifty years ago (1836).
49. Porter, Noah. The American colleges and the American public. pp. 408. New York, n. d.
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College study and instruction.
Morals and manners of colleges and universities.
The ideal American university.
Co-education of the sexes.
50. ——— Classical study and instruction. *In his* American colleges and the American public, p. 337.

51. Price, Bonamy. What is education? *In* Princeton review, July, 1884.
52. Rashdall, H. The origin of the university of Paris. *In* English historical magazine, October, 1886.
53. Rogers, James E. Thorold. Education in Oxford: its method, its aids and its rewards. pp. 266. London, 1861.
54. Science in American colleges. *In* Century magazine, April, 1882.
55. Seeley, John. Liberal education in universities. *In* Farrar's Essays on a liberal education, p. 145.
56. Sidgwick, Henry. The theory of classical education. *In* Farrar's Essays on a liberal education, p. 81.
57. Stewart, J. A., and Robertson, G. Croom. Philosophy in education. *In* Mind, vol. III (1878), p. 241.
58. Thwing, Charles F. American colleges, their students and work. pp. 213. New York, 1883.
59. Todhunter, I. The conflict of studies, and other essays on subjects connected with education. pp. 242. London, 1873.

Other important papers are :—

Competitive examinations.

Private study of mathematics.

Academical reform.

The mathematical tripos.

60. Tyson, James. Requirements of modern college education. Pamph. Philadelphia, 1886.

61. Wilcox, Ansley. Undergraduate life at Oxford. *In* Scribner's monthly, vol. xvii, p. 281.

NOTES.

Note 1. See portions of the following works: Arnold's Higher schools and universities in Germany; Bristed's Five years in an English university (Cambridge); Cournot's Des institutions d'instruction publique en France; Hart's German universities; Farrar's Essays on a liberal education; Grant's Story of the university of Edinburgh; Hippeau's various works on public instruction in European countries and America; Lyte's History of Eton college; Lyte's University of Oxford; Mullinger's University of Cambridge; Staunton's Great schools of England.

Note 2. See also, under the heading, *American schools and colleges*, some titles and references relating to the general subject of college education and studies.

XIV.

EDUCATION OF WOMEN.

1. Ames, Azel. Sex in industry: a plea for the working-girl. pp. 158. Boston, 1875.
2. Bolton, Sarah K. Higher education of women at Oxford university. *In* Education, vol. iv, p. 126.
3. ——— Women in London university and in university college. *In* Education, vol. iv, p. 476.

4. Clarke, Edward H. Sex in education ; or, a fair chance for girls. pp. 181. Boston, 1882.
5. ——— The building of a brain. pp. 158. Boston, 1880.
6. Clouston, T. S. Female education from a medical point of view. *In* Popular science monthly, December, 1883, and January, 1884.
7. Co-education of the sexes in the public schools of the United States. Bureau of education circulars, 1883. Washington.
8. Comfort, George F., and Comfort, Mrs. Anna Manning. Woman's education and woman's health ; chiefly in reply to "Sex in education." pp. 155. Syracuse, 1874.
9. Dewey, John. Health and sex in higher education. *In* Popular science monthly, March, 1886.
10. Duffey, Mrs. E. B. No sex in education ; or, an equal chance for both girls and boys. Being a review of Dr. E. H. Clarke's "Sex in education." pp. 139. Philadelphia, n. d.
11. Fenelon. Traité de l'éducation des filles ; avec une introduction et des notes, par Paul Rousselot. pp. 160. Paris, 1883.
12. Higginson, T. W. The American girl graduate. *In* The Critic, December 4, 1886.

A succinct statement of the history, statistics and results of the higher education of women in the United States.
13. ——— Ought women to learn the alphabet. *In* Atlantic monthly, vol. III, p. 137.

14. Hodgson, W. B. The education of girls; and the employment of women of the upper classes, educationally considered. pp. xiii, 114. London, 1869.
15. Lamotte, *Mme.* L. R. De l'enseignement secondaire des filles. Pamph. Paris, 1881.
16. Lynton, *Mrs.* E. Lynn. The higher education of women. *In* Popular science monthly, December, 1886.
An attempt to prove that higher education is not only valueless, but injurious to a wife and mother.
17. Newton, *Rev.* R. Heber. The education of our daughters. *In his* lectures on Woman's work in the world, p. 275.
18. Orton, James. The liberal education of women. pp. 328. New York, 1873.
19. Rousselot, Paul, *editor.* La pédagogie féminine. Extrait des principaux écrivains qui ont traité de l'éducation des femmes depuis le xvi^e siècle. pp. 234. Paris, 1881.
20. Russell, J. Scott. The technical education of the Englishwoman. *In his* Systematic technical education for the English people, chap. xxiv.
21. Shirreff, Emily. Intellectual education and its influence on the character and happiness of women. pp. 276. London, 1862.
See also the article on higher education of women *in her* Essays and lectures, p. 63.
22. Sidgwick, *Mrs.* Henry. The university education of women. *In* Conference on education (International health exhibition literature, vol. xv, p. 364).

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23. Sill, E. R. Shall women go to college? *In Century magazine*, June, 1886.
24. Smith, M. C. The Harvard annex. *In Education*, vol. VI, p. 568.
25. Stanton, Theodore, *editor*. The woman question in Europe. pp. 478. New York, 1884.
- The several chapters of this work contain information concerning the progress and present condition of female education in European countries. Special chapters are devoted to England, p. 30, and to Italy, p. 320.
26. Thwing, Charles F. Woman's education. *In his American colleges, their students and work*.
- See also* the chapter on girls' schools, in *English schools inquiry commission*, vol. I, p. 546.
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XV.

ART EDUCATION. MANUAL TRAINING. NEEDLEWORK. SCIENTIFIC, TECH- NICAL AND INDUSTRIAL EDUCATION.

a. ART EDUCATION.

1. Chesneau, Ernest. The education of the artist. Translated by Clara Bell. pp. xvi, 327. New York, 1886.

2. Clark, Isaac Edwards. Instruction in drawing. Applied to the industrial and fine arts in the United States. Part I. Drawing in the public schools. Special report, United States Bureau of Education. pp. 842. Washington, 1885.
3. Collier, John. A primer of art. pp. 88. London, 1882.
4. Culyer, John Y. Industrial and inventive drawing in public schools. Pamph. Brooklyn, 1877.
5. Davidson, Thomas. The place of art in education. A lecture. Pamph. Boston, 1885.
6. Drone, Eaton S. Industrial art education in the United States. *In* Hamerton's Higher education and a common language, p. 106.
7. Farrar, Frederic W. Art in schools. *In* Education, vol. v, p. 360.
8. Horsfall, T. C. The use of pictures and other works of art in elementary schools. *In* Conference on education (International health exhibition literature, vol. XIII, p. 54).
9. Hulme, Edward F. Principles of ornamental art. pp. 137 and xxxii plates. London, n. d.
10. Industrial arts, The. Historical sketches. [South Kensington museum art hand-books.] pp. 276. London, n. d.
11. Langl, Joseph. Modern art education, its practical and æsthetic character educationally considered. Translated by S. R. Koehler. pp. L, 161. Boston, 1875.

12. Le-Duc, Violet. Learning to draw; or, the story of a young designer. Translated by Virginia Champlin. pp. 324. New York, 1880.
13. Leland, Charles G. Industrial art in schools. Bureau of education circulars, 1882. Washington.
14. ——— The minor arts. pp. 148. London, 1880.
15. Nichols, George Ward. Art education applied to industry. pp. 211. New York, 1877.
16. Perry, Walter S. The teaching of drawing in grammar schools. *In Education*, vol. iv, p. 394.
17. Rood, Ogden N. Students' text-book of color; or, modern chromatics, with applications to art and industry. pp. 329. New York, 1881.
18. Smith, Walter. Art education: scholastic and industrial. pp. 397. Boston, 1873.
19. ——— Drawing in graded public schools: what to teach and how to teach it. Pamph. Boston, 1872.
20. ——— Drawing in the public schools of the city of Boston. Pamph. Boston, 1874.
21. ——— Industrial drawing in the public schools. Pamph. Boston, 1875.
22. Sparkes, John C. L. Schools of art: their origin, history, work and influence. [International health exhibition hand-books.] pp. 152. London, 1884.
23. Warren, S. Edward. Industrial education and industrial drawing as one of its elements. *In Education*, vol. iv, p. 367.

24. Wiseman, *Cardinal*. Relation of the arts of design with the arts of production, artisan and artist. Pamph. Boston, 1869.
25. Wornum, Ralph N. Analysis of ornament: the characteristics of styles. An introduction to the study of the history of ornamental art. pp. 190. London, 1882.
26. Young, Jennie J. The ceramic art. A compendium of the history and manufacture of pottery and porcelain. pp. 499. New York, 1879.

For the general history of art consult Lübke, Outlines of the history of art.

b. MANUAL TRAINING.

1. Adler, Felix. A new experiment in education. *In* Princeton review, March, 1883.
2. Anon. Wood-working tools, how to use them. pp. 101. Boston, 1884.
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5. The study of physiology. Dr. Jas. Paget.
6. The education of the judgment. Dr. Faraday.
7. The educational history of science. Dr. Whewell.
8. The study of economic science. Hodgson.
9. Political education. Herbert Spencer.
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2. Bevan, G. Phillips. A hand-book to the industries of the British Isles and the United States. pp. 220. London, 1882.

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4. Bolles, Albert S. Industrial history of the United States. pp. 936. Norwich, 1881.
5. Cunningham, W. The growth of English industry and commerce. pp. 492. London, 1882.
6. Knox, Thomas W. The life of Robert Fulton and a history of steam navigation. pp. 507. New York, 1886.
7. Manuals of technology. London, 1885.
 - Cutting tools, worked by hand and machine. Robert H. Smith. pp. 224.
 - Design in textile fabrics. Thomas R. Ashenhurst. pp. 248.
 - Practical mechanics. John Perry. pp. 271.
 - Spinning woolen and worsted. Walter S. Bright McLaren. pp. 256.
 - Steel and iron. William Henry Greenwood. pp. 536.
 - The dyeing of textile fabrics. J. J. Hummel. pp. 534.
8. Marshall, Alfred, *and* Marshall, Mary Paley. The economics of industry. pp. 228. London, 1879.
9. Rogers, James E. Thorold. Six centuries of work and wages: the history of English labor. pp. 14, 591. New York, 1884.
10. Scott, William B. Half-hour lectures on the history and practice of the fine and ornamental arts. New York, 1875.
11. Smiles, Samuel. Men of invention and industry. pp. 372. New York, 1885.

12. Taylor, R. Whately Cooke. Introduction to a history of the factory system. Accounts of the commerce and manufacturing interests of ancient, mediæval and modern times, and of the great mechanical inventions. pp. xiii, 441. London, 1886.

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XVI.

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2. Bible in the public schools, The. Arguments in the case of John D. Minor *et al.* vs. The board of education of the city of Cincinnati *et al.* pp. 420. Cincinnati, 1870.
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24. Power and authority of school officers and teachers, The. pp. 181. New York, 1885.
25. Randall, S. S. A digest of the common school system of the State of New York. pp. 320. Albany, 1844.

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27. Smith, Adam. The wealth of nations.
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28. Spear, Samuel T. Religion and the state; or, the Bible in the public schools. pp. 393. New York, 1876.
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XVII.

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1. Adams, Charles F., Jr. The new departure in the common schools of Quincy, and other papers on educational topics. Pamph. Boston, 1879.

The other papers are, The public library and the public schools, Fiction in public libraries, and Educational catalogues.

2. Alger, William Rounseville. The school of life. pp. 205. Boston, 1881.
3. Angiulli, Andrea. La pedagogia : lo stato e la famiglia. Pamph. Napoli, 1882.
4. Atkinson, William P. On the right use of books. A lecture. pp. 65. Boston, 1880.
5. Barnard, Henry, *editor*. American pedagogy : education, the school and the teacher in American literature. Republished from American journal of education. pp. 608. Hartford, 1876.
 Contains :—
 I. Education and schools.
 II. Faculties and studies : their order and method of treatment.
 III. The teacher—the dignity of the office—special preparation—motives.
 IV. National and state relations to education.
 V. Various aspects of popular and higher education.
 VI. Professional or normal aims and methods in teaching.
6. Breal, Michel. Quelques mots sur l'instruction publique en France ; l'école. pp. 151. Paris, 1872.
7. Coignet, *Mme*. De l'éducation dans la démocratie. pp. xii, 344. Paris, 1881.
8. Common school education, The value of, to -common labor. Bureau of education circulars, 1879. Washington.
9. Conference on education. International health exhibition literature. London, 1884. 4 vols. Numbered in the consecutive series of reports of the exhibition as XIII, XIV, XV, XVI. pp. 512, 648, 424, 471.

These volumes contain a long array of papers, speeches and discussions on matters pertaining to education, teaching and schools, by

eminent educators from all parts of the world, arranged under the following general heads:—

Vol. XIII. Conditions of healthy education.

Infant training and teaching.

Organization of elementary education.

Inspection and examination of schools.

Physical education.

Teaching of music in schools.

On the teaching of geography.

Vol. XIV. Technical teaching: science, art, handicrafts, agriculture, domestic economy. Subsidiary aids to instruction (museums, etc.).

Vol. XV. Organization of university education.

On the Paris free school of political science.

Vol. XVI. Training of teachers.

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10. *Congres pédagogique des instituteurs et institutrices publiques de France.* pp. 118. Paris, 1881.

11. *Farrell, Joseph.* The lectures of a certain professor. pp. 325. London, 1877.

12. *Green, Samuel S., editor.* Libraries and schools. pp. 126. New York, 1883.

A series of papers by C. F. Adams, Jr., S. S. Green, R. C. Metcalf and W. E. Foster.

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13. *Hamilton, Gail.* Our common school system. pp. 358. Boston, n. d.

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15. Huxley, Thomas Henry. Lay sermons, addresses and reviews. pp. 378. New York, 1883.

Contains:—

A liberal education and where to find it.

Scientific education.

On the educational value of the natural history sciences.

On the study of zoology.

On Descartes' "Discourse touching the method of using one's reason rightly, and of seeking scientific truth."

16. ——— Science and culture, and other essays. New York, 1884.

Contains, among others, addresses on the following subjects:—

Universities: actual and ideal.

Technical education.

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17. Kay, David. Education and educators. pp. 490. London, 1883.

Chapters on—

The several meanings of education.

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19. Pillans, James. Contributions to the cause of education. pp. 591. London, 1856.

Principles of elementary teaching.

Speech on the proposed system of national education for Ireland.

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Seminaries for teachers.

On the relative importance of classical training in the education of youth.

Rationale of discipline.

A word for the universities of Scotland and a plea for the humanity classes in the college of Edinburgh.

Letter on university reform.

20. Simon, Jules. *L'école*. Paris, 1881.

21. Symington, Andrew James. *Hints to our boys*. pp. 170. New York, n. d.

22. Whitney, James S. *Public schools in their relations to the community*. Read before the Philadelphia social science association, April 1, 1880. Pamph. Philadelphia, 1880.

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1. *Addresses and journal of proceedings of the American normal school, National teachers', and the Central college associations*. Washington, 1871.

2. **American institute of instruction, Proceedings of.** 1830-1885. 53 vols. No vols. published for '73 and '74. Boston.

A classified index to the valuable series of papers contained in these volumes is very much needed.

3. **American journal of education, The.** Edited by Henry Barnard. 1855-1880. 30 vols. Hartford.

Perhaps the largest and most valuable collection of pedagogical literature ever brought together; but needs a carefully prepared classified index to render available the multifarious contents of the thirty volumes.

4. **Annual reports of the controllers of the public schools of the first school district of the State of Pennsylvania (Philadelphia).** 1828-1869. 25 vols. Philadelphia.

5. **Annual reports of the board of public education of the first school district of Pennsylvania (Philadelphia).** 1870-1886. 17 vols. Philadelphia.

6. **Annual report of the president of Columbia college, 1882.**

Discusses the elective system and the university education of women.

7. **Annual reports of the president and treasurer of Harvard college, 1883-1884.**

8. **Annual reports of the president and treasurer of Harvard college, 1884-1885.**

Valuable documents in connection with the history of Harvard college. They contain President Eliot's discussion of the elective system.

9. **Arnold, Matthew.** Reports on education in France, Italy, Germany and Switzerland. *In* English schools inquiry commission, vol. VI, p. 443.

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10. Buisson, F. Rapport sur l'instruction primaire á l'exposition universelle de Philadelphie en 1876. pp. 688. Paris, 1878.
 11. ——— Rapport sur l'instruction primaire á l'exposition universelle de Vienne en 1873. pp. 353. Paris, 1875.
 12. Clark, Isaac Edwards. Instruction in drawing applied to the industrial and fine arts in the United States. Part I. Drawing in the public schools. pp. 842. Washington, 1885.
 13. College libraries as aids to instruction. Buñeau of education circulars, 1880. Washington.
 14. Education. An international magazine. 1880-1886. 6 vols. Boston.
 15. Educational exhibits and conventions at the world's industrial cotton centennial exposition. New Orleans, 1884-1885. Special report of the bureau of education. Washington, 1886.
 16. English schools inquiry commission. Reports of the commissioners. 21 vols. London, 1868-1869.
 17. English schools inquiry commission. Report of Her Majesty's commissioners appointed to inquire into the revenues and management of certain schools and colleges, and the studies pursued and instruction given therein. 4 vols. London, 1864. Maps accompanying the same. 1 vol.

See a series of articles on this report, in Blackwood's magazine, vol. xcvi, pp. 219, 449, 696.
 18. Fearon, D. R. Report on the education in certain burgh schools and other schools of secondary education in Scotland. *In* English schools inquiry commission, vol. vi, p. 1.

19. **Fraser, James.** Report on the common school system of the United States and of the provinces of Upper and Lower Canada. English schools inquiry commission. London, 1866.
20. **Industrial education association.** Annual reports, 1885 and 1886.
21. ——— Catalogue of children's industrial exhibition, 1886. Pamph. New York.
22. **Journal of the board of public education of the first school district of Pennsylvania (Philadelphia).** 1875-1886.
23. **Memorial of the dedication of the public Latin and English high school-house.** Pamph. Boston, 1881.
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25. **New England journal of education, The.** 1875-1885. 20 vols. in 10. Boston.
26. **Primary teacher, The.** A monthly magazine devoted to the interests of primary instruction in America. 1877-1883. 6 vols. Discontinued in 1883. Boston.
27. **Reports of the United States commissioners to the Paris universal exposition, 1868.** 5 vols. Washington, 1880.

Vol. II contains reports on Fine arts, by William W. Story; Education, by Joshua L. Chamberlain; Political education, by Andrew D. White; and Manual training schools, by Eliot C. Jewett.
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29. United States bureau of education, Circulars of information of. 1873-1885. Washington.
30. United States bureau of education. Public libraries in the United States of America: their history, condition and management. Special report. 2 parts in 1 vol. Washington.
31. United States bureau of education, Reports of commissioner of education. 1870-1885. 14 vols. Washington.

XIX.

FOREIGN, STATE AND CITY EDUCATIONAL REPORTS.

A collection of official educational reports of various foreign countries and the states and important cities of the United States, which it has not been deemed necessary to enumerate.

XX.

EDUCATIONAL TEXT-BOOKS.

A collection of text-books for schools, in the various branches of instruction, chiefly of recent date. Not catalogued. An historic collection of text-books would be a valuable addition to the library.

XXI.

PHILOSOPHY AND PSYCHOLOGY. HISTORY
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3. Bacon, Francis. The novum organon; or, a true guide to the interpretation of nature. Translated by Rev. G. W. Kitchin. pp. 338. Oxford, 1855.
4. Bain, Alexander. Logic: deductive and inductive. pp. 731. New York, 1884.
5. ——— Mental science; a compendium of psychology and the history of philosophy. Designed as a text-book for high schools and colleges. pp. 528. New York, 1882.
6. ——— The emotions and the will. pp. 604. New York, 1876.
7. ——— The senses and the intellect. pp. 714. New York, 1879.
8. Berkeley, George. A treatise concerning the principles of human knowledge. pp. 424. Philadelphia, 1881.

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9. Bowne, Borden P. Introduction to psychological theory. pp. 329. New York, 1887.
10. Brooks, Edward. Mental science and methods of mental culture. pp. 504. Lancaster, 1883.
11. Clifford, William Kingdon. Conditions of mental development, and other essays. Pamph. New York, n. d.
12. Descartes, The method, meditations, and selections from the principles of. Translated with an introductory essay, historical and critical, by John Veitch. pp. 292. Edinburgh, 1881.
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14. Earle, J. The history of the word "mind." *In* Mind, vol. VI, p. 301.
15. Fichte, Johann Gottlieb. Popular works. Translated, with a memoir by William Smith. pp. 564. London, 1873.
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16. Fothergill, J. Milner. The will power: its range in action. pp. 184. New York, 1887.
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A comprehensive outline of the nature and functions of mind, with practical suggestions for teachers at the end of each chapter. Recommended by Prof. Joseph Payne.
18. Green, T. H. Can there be a natural science of man? *In* Mind, vol. VII, pp. 1, 161, 321.

19. Hall, G. Stanley. Aspects of German culture. pp. 320. Boston, 1881.

Contains, among others, the following valuable papers :—

The new cultus war.

Hermann Lotze.

Is æsthetics a science?

Are the German universities declining?

Fowler's Locke and German psychology.

The muscular perception of space.

Laura Bridgman.

The perception of color.

See also the following papers by him :—

The education of the will. *In* Princeton review, November, 1882.

The new psychology. *In* Andover review, Feb., 1885.

New departures in education. *In* North American review, February, 1885.

20. Hamilton, Sir William. Lectures on metaphysics and logic. Edited by Henry L. Mansel and John Veitch. 2 vols. pp. 718, 715. New York, 1883.

21. Hathaway, A. J. Schopenhauer. *In* Education, vol. II, p. 234.

22. Helmholtz, H. On the origin and meaning of geometrical axioms. *In* Mind, vol. I, p. 301, and vol. II, p. 212.

There is a critical examination of Helmholtz's first paper in an article on Kant's Space and modern mathematics by J. P. N. Land, in *Mind*, vol. II, p. 38. Helmholtz's second paper is a reply to this article.

23. Hopkins, Louisa Parsons. Educational psychology. A treatise for parents and educators. pp. 96. Boston, 1886.

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24. Huxley, Thomas Henry. On Descartes' discourse touching the method of using one's reason rightly, and of seeking scientific truth. *In his Lay sermons.*
25. James, W. On some omissions of introspective psychology. *In Mind*, vol. ix, p. 1.
26. ——— What is an emotion? *In Mind*, vol. ix, p. 188.
27. Jevons, W. Stanley. The principles of science; a treatise on logic and scientific method. pp. 786. London, 1883.
28. ——— Elementary lessons in logic: deductive and inductive. pp. 340. New York, 1882.
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17. Fiske, John. American political ideas, viewed from the standpoint of universal history. pp. 152. New York, 1885.

Contains—I. The town meeting. II. The Federal union. III. Manifest destiny.
18. Frothingham, Richard. The rise of the republic of the United States. pp. 639. Boston, 1881.
19. Gilman, Arthur. A history of the American people. pp. 668. Boston, 1883.
20. Greene, George Washington. Historical view of the American revolution. pp. 460. Boston, 1865.
21. Hallowell, Richard P. The Quaker invasion of Massachusetts. pp. 222. Boston, 1884.

See also his Pioneer Quakers. Boston, 1887.
22. Helps, Arthur. The Spanish conquest in America and its relation to the history of slavery and to the government of the colonies. 4 vols. pp. 490, 470, 532, 456. New York, 1868.

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23. Higginson, Thomas Wentworth. A book of American explorers. pp. 367. Boston, n. d.
24. ——— A larger history of the United States of America to the close of President Jackson's administration pp. 470. New York, 1886.
- Valuable for the large number of fine portraits it contains.
25. Hildreth, Richard. A history of the United States of America. 6 vols. New York, 1882.
26. Ingram, Henry Atlee. The life and character of Stephen Girard, of the city of Philadelphia, in the commonwealth of Pennsylvania, mariner and merchant. pp. 185. Philadelphia, 1885.
- The appendix contains an historical and descriptive sketch of Girard college.
27. Jackson, Helen (H. H.). A century of dishonor. A sketch of the United States government's dealings with some of the Indian tribes. pp. 514. Boston, 1885.
28. Johnston, Alexander. A history of the United States for schools. With maps, plans, illustrations and questions. pp. ix, 473. New York, 1885.
29. ——— *editor*. Representative American orations to illustrate American political history. 3 vols. pp. 282, 314, 405. New York, 1886.
30. Kingsley, Charles. The first discovery of America. *In his* Historical lectures and essays, p. 237.
31. Lodge, Henry Cabot. A short history of the English colonies in America. pp. 560. New York, 1882.

32. Lossing, Benson J. *Cyclopædia of United States history*, from the aboriginal period to 1876; containing brief sketches of important events and conspicuous actors. 2 vols. New York, 1881.
33. ——— The pictorial field-book of the war of 1812; or, illustrations, by pen and pencil, of the history, biography, scenery, relics and traditions of the last war for American independence. pp. 1084. New York, 1868.
34. ——— The pictorial field-book of the revolution; or, illustrations, by pen and pencil, of the history, biography, scenery, relics and traditions of the war for independence. 2 vols. pp. 783, 772. New York, 1860.
35. Mackenzie, Robert. *America. A history. The United States, Dominion of Canada, South America.* pp. 557. London, 1882.
36. McMaster, John Bach. *A history of the people of the United States, from the revolution to the civil war.* Vols. I and II, thus far published. pp. 622, 656. New York, 1885.
37. Palfrey, John Gorham. *A compendious history of New England, from the discovery by Europeans to the first general congress of the Anglo-American colonies.* 4 vols. pp. 408, 399, 469, 665. Boston, 1884.
- The Lowell institute lectures on Massachusetts and its early history, by Winthrop Ellis and others, Boston, 1869, form a valuable supplement to Palfrey.
- See also Lowell's articles on Witchcraft and his New England two centuries ago, in his *My study windows*,
38. Paris, *The comte de*. *The battle of Gettysburg; from the history of the civil war in America.* Edited by John P. Nicholson. pp. 315. Philadelphia, n. d.

39. Parkman, Francis, *The works of*. 10 vols. Boston, 1886.

The conspiracy of Pontiac and the Indian war after the conquest of Canada. 2 vols. pp. 367, 384.

Pioneers of France in the New World. pp. 473.

The Jesuits in North America. pp. 463.

Montcalm and Wolf. 2 vols. pp. 514, 502.

Frontenac and New France under Louis XIV. pp. 463.

La Salle and the discovery of the great West. pp. 483.

The old régime in Canada. pp. 448.

The Oregon trail. Sketches of prairie and Rocky-mountain life. pp. 381.

40. ——— *Historic hand-book of the northern tour. Lakes George and Champlain, Niagara, Montreal, Quebec.* pp. 180. Boston, 1885.

41. Preston, Howard W. *Documents illustrative of American history, 1606-1863.* New York, 1886.

42. Roosevelt, Theodore. *The naval war of 1812; or, the history of the United States navy during the last war with Great Britain; to which is appended an account of the battle of New Orleans.* pp. 541. New York, 1883.

43. Scharf, J. Thomas, and Westcott, Thompson. *History of Philadelphia, 1609-1884.* 3 vols. pp. 852, 850, 698. Philadelphia, 1884.

See The settlement of Germantown, Mennonite emigration to Pennsylvania, and other papers in Pennypacker's Historical and biographical sketches.

44. Schouler, James. *History of the United States of America under the constitution.* 3 vols. pp. 523, 472, 539. Washington, 1882.

Three volumes published, reaching 1831.

45. Scott, Eben Greenough. The development of constitutional liberty in the English colonies of America. pp. 334. New York, 1882.
46. Scudder, Horace E. Men and manners in America one hundred years ago. pp. 320. New York, 1887.
47. Short, John T. The North Americans of antiquity : their origin, migrations and type of civilization considered. pp. 548. New York, 1882.
48. Stoughton, John. William Penn, the founder of Pennsylvania. pp. 364. London, 1882.
49. Sypher, J. R. School history of Pennsylvania, from the earliest settlements to the present time. pp. 364. Philadelphia, 1870.
50. Westcott, Thompson. The historic mansions and buildings of Philadelphia, with some notice of their owners and occupants. pp. 528. Philadelphia, n. d.
51. Winsor, Justin, *editor*. Narrative and critical history of America. Vols. II, III, IV, V, thus far published. pp. 640, 578, 516, 649. Boston, 1886.
52. ——— The reader's hand-book of the American revolution ; 1761-1783. pp. 328. Boston, 1880.

Note.—Additional titles will be found under the head of *Juvenile literature, c, infra*.

b. GOVERNMENT.

1. Andrews, Israel Ward. Manual of the constitution of the United States. pp. 408. Cincinnati, n. d.
2. Carnegie, Andrew. Triumphant democracy ; or, fifty years' march of the Republic. pp. 519. New York, 1886.

3. Charter to William Penn, and laws of the province of Pennsylvania, passed between the years 1682 and 1700, preceded by Duke of York's laws in force from the year 1676 to the year 1682; with an appendix containing laws relating to the organization of the provincial courts, and historical matter. Compiled and edited by Staughton George, Benjamin M. Nead and Thomas McCamant. pp. 612. Harrisburg, 1879.
4. Cooley, Thomas M. The general principles of constitutional law in the United States of America. pp. 376. Boston, 1880.
5. Curtis, George Ticknor. History of the origin, formation and adoption of the constitution of the United States, with notices of its principal framers. 2 vols. New York, 1861.

The best work on the subject, but now (1886) entirely out of print. A new edition has been announced. Vols. x and xi of Bancroft's history (vol. vi of the revised edition) are devoted to the history of the formation of the constitution. Hildreth goes over the ground more rapidly in chapters xlv-xlviii, vol. iii. The outline in Schouler, vol. i, chap. i, is still briefer and is very readable and impartial. Elliot's Debates is the chief source of information on the formation of the constitution.

See also von Holst's constitutional history of the United States, vol. i.
6. Dawes, Anna Laurens. How we are governed. An explanation of the constitution and government of the United States. A book for young people. pp. 418. Boston, 1885.
7. Elliot, Jonathan, *editor*. Debates on the adoption of the Federal constitution (including the Madison papers, etc.). 5 vols. Philadelphia, 1881.
8. Emerson, Ralph Waldo. The fortune of the republic. *In his* Miscellanies, p. 395.

9. **Federalist, The.** A collection of essays, written in favor of the new constitution as agreed upon by the Federal convention, September 17, 1787. (By Hamilton, Madison, Jay.) Edited by Henry B. Dawson. pp. 615. New York, 1864.
10. **Holst, H. von.** The constitutional and political history of the United States. Translated from the German by John J. Lalor and Alfred B. Mason. 5 vols. pp. 505, 714, 597, 461, 490. Chicago, 1885.
11. **Johnston, Alexander.** History of American politics. pp. 314. New York, 1883.

A compendium of great value to the student.
12. **Lowell, James Russell.** Democracy; an inaugural address, delivered at Birmingham, England. *In his Democracy and other addresses.*
13. **Macy, Jesse.** Our government. How it grew, what it does, and how it does it. pp. 238. Boston, 1886.
14. **Martin, George H.** A text book on civil government in the United States. pp. 330. New York, n. d.
15. **McMurray, John.** The people's manual and hand-book of popular government (for Pennsylvania). pp. 236. Harrisburg, 1886.
16. **Sterne, Simon.** Constitutional history and political development of the United States. pp. 323. New York, n. d.
17. **Stickney, Albert.** Democratic government. A study of politics. pp. 166. New York, 1885.

18. Story, Joseph. Commentaries on the constitution of the United States: with a preliminary review of the constitutional history of the colonies and states before the adoption of the constitution. Edited, with notes and additions, by Thomas M. Cooley. 2 vols. Boston, 1873.
 19. Straus, Oscar S. The origin of republican form of government in the United States of America. pp. 149. New York, 1885.
 20. Tocqueville, Alexis. de. Democracy in America. Translated by Henry Reeve. Edited with notes by Francis Bowen. 2 vols. pp. 559, 499. Boston, 1882.
 21. Wallace, H. E., and Sanders, D. The constitution of the commonwealth of Pennsylvania. pp. 64. Philadelphia, 1881.
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XXVIII.

GENERAL HISTORY.

For cyclopædias, dictionaries and manuals of history, see Works of reference.

1. Abbott, John S. C. Italy, and the war for Italian independence. pp. 652. New York, 1882.
2. Arnold, Thomas. Introductory lectures on modern history. Edited by Henry Reed. pp. 428. New York, 1877.

3. **Balmes, J.** Protestantism and catholicity compared in their effects on the civilization of Europe. pp. 501. Baltimore, n. d.

An able work by an authoritative catholic writer. It should be read in connection with Guizot's history of civilization, in reply to which it was written.

4. **Baring-Gould, S.** Germany: present and past. pp. 492. New York, n. d.

Contains a chapter on education (vii).

5. **Blackie, John Stuart.** What does history teach? pp. 123. New York, 1886.

6. **Bryce, James.** The holy Roman empire. pp. 479. New York, 1883.

7. **Cox, Sir George W.** A general history of Greece from the earliest period to the death of Alexander the Great, with a sketch of the subsequent history to the present time. pp. 709. New York, 1876.

8. **Fisher, George Park.** Outlines of universal history. pp. 674. New York, 1885.

9. **Freeman, Edward A.** The chief periods of European history. Six lectures read in the university of Oxford in Trinity term, 1885, with an essay on Greek cities under Roman rule. pp. 250. London, 1886.

Contents—1. Europe before the Roman power. 2. Rome the head of Europe. 3. Rome and the new nations. 4. The divided empire. 5. Survivals of empire. 6. The world Romeless; Greek cities under Roman rule.

10. ——— The historical geography of Europe. 2 vols. Vol. I, pp. 629; vol. II, maps. London, 1882.

11. Gibbon, Edward. The decline and fall of the Roman empire. Abridged by William Smith. pp. 677. New York, 1881.
12. Green, John Richard. History of the English people. 4 vols. pp. 576, 500, 451, 519. New York, 1882.
13. Guhl, E., and Koner, W. The life of the Greeks and Romans, described from antique monuments. Translated by F. Hueffer. pp. 618. New York, 1876.
14. Guizot, F. P. G. History of the origin of representative government in Europe. Translated by A. R. Scoble. pp. 538. London, 1861.
15. Hallam, Henry. View of the state of Europe during the middle ages. Adapted by William Smith. pp. 708. New York, 1879.
16. Harrison, James H. Spain. pp. 717. Boston, 1881.
17. History primers. Edited by J. R. Green. About 125 pages each. New York, 1881-1883.
 - Old Greek life. J. P. Mahaffy.
 - Roman antiquities. A. S. Wilkins.
 - Rome. M. Creighton.
 - The development of the Roman constitution. Ambrose Tighe.
 - Greece. C. A. Fyffe.
 - France. Charlotte M. Yonge.
 - Europe. Edward A. Freeman.
18. Jervis, W. H. A history of France from the earliest times to the establishment of the second empire, in 1852. pp. 730. New York, 1882.

19. Kingsley, Charles. Historical lectures and essays. pp. 404. London, 1885.

Contains Alexandria and her schools; The ancient régime; The first discovery of America; Cyrus, the servant of the Lord; Ancient civilization, and other lectures and essays.

20. Lenormant, François, and Chevallier, E. A manual of the ancient history of the East to the commencement of the Median wars. 2 vols. pp. 538, 394. London, 1869.

21. Lewis, Charlton T. A history of Germany from the earliest times. pp. 773. New York, 1882.

22. Lilly, William Samuel. Chapters in European history, with an introductory dialogue on the philosophy of history. 2 vols. pp. 299, 343. London, 1886.

Introd. What can history teach us?

Chap. 1. The Christian revolution.

2. The turning-point of the middle ages.

3. Mediæval spiritualism.

4. The renaissance and liberty.

5. The prophet of the renaissance.

6. The eighteenth century.

7. The principles of '89.

8. The age of Balzac.

23. Lodge, Richard. A history of modern Europe from the capture of Constantinople by the Turks to the treaty of Berlin in 1878. pp. 772. New York, 1886.

24. McCarthy, Justin. A history of our own times from the accession of Queen Victoria to the general election of 1880. 2 vols. pp. 559, 682. New York, n. d.

25. MacDonald, J. M. The science of history. *In Mind*, vol. x, p. 363.
26. Mackenzie, Robert. The nineteenth century. A history. pp. 463. London, 1887.
27. Merivale, Charles. A general history of Rome from the foundation of the city to the fall of Augustulus, B. C. 753-A. D. 476. pp. 701. New York, 1883.
28. Real, Antony. The story of the stick in all ages and lands. pp. 254. New York, 1875.
29. Sharpe, Samuel. The history of Egypt from the earliest times till the conquest by the Arabs, A. D. 640. 2 vols. pp. 427, 412. London, 1876.
30. Sheldon, Mary D. Studies in general history. pp. 556. Boston, 1885.
31. Stille, Charles J. Studies in mediæval history. pp. 463. Philadelphia, 1882.
32. Thalheimer, M. E. A manual of ancient history. pp. 365. New York, 1872.
33. ——— A manual of mediæval and modern history. pp. 460. New York, 1874.
34. Wheeler, Charles Gardner. The course of empire. Outlines of the chief political changes in the history of the world. pp. 459. Boston, 1884.
35. Wilkinson, Sir J. Gardner. A popular account of the ancient Egyptians. 2 vols. pp. 419, 436. New York, 1854.

XXIX.

SOCIAL, POLITICAL AND ECONOMIC
SCIENCE.

1. Altón, Edmund. Among the law makers. pp. 308. New York, 1886.
2. Amos, Sheldon. The science of law. pp. 417. New York, 1883.
3. ——— The science of politics. pp. 490. New York, 1883.
4. Arnold, Matthew. Culture and anarchy: an essay in political and social criticism. pp. 239. London, 1875.
5. Buckland, Anna. Our national institutions: a short sketch for schools. pp. 111. London, 1886.
6. Comstock, John M. The civil service in the United States, from the reports of 1884. pp. 597. New York, 1885.

Contains a catalogue of all non-elective positions, with the compensation of each, and Full information in regard to the open competitive examinations under the act of 1883; also a description of the civil service of the States of New York and Massachusetts, and of their municipalities under recent laws.
7. Crane, William W., and Moses, Bernard. Politics: an introduction to the study of comparative constitutional law. pp. 305. New York, 1884.

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8. **Cunningham, W.** The growth of English industry and commerce. pp. 492. London, 1882.

 9. **Dicey, A. V.** Lectures introductory to the study of the law of the constitution. pp. 407. London, 1885.

The best general statement of the principles and practical working of the English constitution.

 10. **Du Cane, Sir Edmund F.** The punishment and prevention of crime. pp. 235. London, 1885.

 11. **Eaton, Dorman B.** Civil service in Great Britain. A history of abuses and reforms and their bearing upon American politics. pp. 469. New York, 1880.

 12. **Ely, Richard T.** The labor movement in America. pp. 373. New York, 1886.

Contains a chapter (v) on The educational value of labor organizations.

See also two essays in J. S. Mill's *Dissertations and discussions*; The claims of labor, vol. II, p. 260; Thornton on Labor and its claims, vol. v, p. 28.

 13. **Escott, T. H. S.** England, her people, polity and pursuits. pp. 625. New York, 1880.

Chapter xvi contains a valuable outline of the condition of public education in England.

 14. **Foster, John.** An essay on the evils of popular ignorance. pp. 282. London, 1876.

 15. **George, Henry.** Progress and poverty: an inquiry into the cause of industrial depressions and of increase of want with increase of wealth; the remedy. pp. 508. New York, 1886.

16. Kay, Joseph. The social condition and education of the people in England. pp. 323. New York, 1864.
17. Lalor, John J., *editor*. Encyclopædia of political science; treating also of political economy and of the political history of the United States. 3 vols. Chicago, 1882.
18. Laveleye, Emile de. The socialism of to-day. Translated by Goddard H. Orpen. pp. 331. London, n. d.
See an article on Socialism by F. A. Walker, in Scribner's magazine, January, 1887.
19. Marshall, Alfred, *and* Marshall, Mary Paley. The economics of industry. pp. 231. London, 1879.
20. Newcomb, Simon. Principles of political economy. pp. 548. New York, 1886.
21. Newton, Rev. R. Heber. Social studies. pp. 380. New York, 1887.
A series of essays on the labor question, co-operation, socialism, communism and education. Contains essays on Moral education in the public schools, The free kindergarten in church work.
22. ——— Womanhood. Lectures on woman's work in the world. pp. 315. New York, 1881.
Contains a lecture on The education of our daughters.
23. Nordhoff, Charles. Politics for young Americans. pp. 200. New York, 1883.
24. Patton, J. Harris. The natural resources of the United States. pp. 120. New York, 1882.
25. Rae, John. Contemporary socialism. pp. 455. New York, 1884.
26. Raleigh, Thomas. Elementary politics. pp. 163. London, 1886.

27. Rogers, James E. Thorold. Six centuries of work and wages. The history of English labor. pp. 591. New York, 1884.
28. S. F. and C. W. F. Lessons on practical subjects for grammar-school children. pp. 150. Boston, 1885.
29. Smith, Roderick H. The science of business. The study of the principles controlling the laws of exchange. pp. 182. New York, 1885.
30. Spencer, Herbert. The study of sociology. pp. 451. New York, 1883.
31. Taylor, R. Whately Cooke. Introduction to a history of the factory system. Accounts of the commerce and manufacturing interests of ancient, mediæval and modern times, and of the great mechanical inventions. pp. 441. London, 1886.
- See* chap. xiii; The laboring classes in the middle ages, in C. J. Stillé's *Studies in mediæval history*, chap. xiv.
32. Thomas, Jean, and Guerin, Alexis. Cours d'instruction civique. pp. 201. Paris, 1882.
33. Thompson, Robert Ellis. Political economy, with especial reference to the industrial history of nations. pp. 419. Philadelphia, 1882.
- Chapter xiii treats of the science and the economy of intelligence and education.
34. United States civil service commission, Third annual report of the. January 16, 1885, to January 16, 1886. Pamph. Washington, 1886.

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35. Ward, Lester F. Dynamic sociology; or, applied social science as based upon statical sociology and the less complex sciences. 2 vols. pp. 706, 690. New York, 1883.

Chap. xiv is devoted to the discussion of the theory of education and the relation of the state to education.

36. Warner, Charles Dudley. The extirpation of criminals. *In* New Princeton review, January, 1887.

37. Weeden, Wm. B. The social law of labor. pp. 308. Boston, 1882.

38. Woolsey, Theodore D. Political science; or, the state theoretically and practically considered. 2 vols. pp. 585, 626. New York, 1886.

The state's relation to education is discussed in Part II, Sec. 79.

XXX.

SCIENCE.

a. PHYSICAL SCIENCE.

1. Arnott, Neil. Elements of physics or natural philosophy. Edited by Alexander Bain and Alfred Swaine Taylor. pp. 873. New York, 1883.
2. Benjamin, Park. The age of electricity from Amber-Soul to telephone. pp. 381. New York, 1886.

3. Bloxam, Charles Loudon. Chemistry: inorganic and organic, with experiments. pp. 738. Philadelphia, 1883.
4. Carpenter, William Lant. Energy in nature. pp. 212. New York, 1883.
5. Clifford, William Kingdon. The common sense of the exact sciences. pp. 271. New York, 1885.
6. Deschanel, A. Privat. Elementary treatise on natural philosophy. Translated by J. D. Everett. pp. 1156. New York, 1883.
7. Helmholtz, H. Popular lectures on scientific subjects. Translated by E. Atkinson and others. 2 vols. pp. 397, 265. New York, 1873.

Contents, Vol. I.

1. On the relation of natural science to science in general. 2. On Goethe's scientific researches. 3. On the physiological causes of harmony in music. 4. Ice and glaciers. 5. On the interaction of the natural forces. 6. The recent progress of the theory of vision. 7. On the conservation of force. 8. On the aim and progress of physical science.

Contents, Vol. II.

1. Gustav Magnus, In Memoriam. 2. On the origin and significance of geometrical axioms. 3. On the relation of optics to painting: *a.* Form; *b.* Shade; *c.* Color; *d.* Harmony of colors. 4. On the origin of the planetary system. 5. On thought in medicine. 6. On academic freedom in German universities.

8. Mayer, Alfred M. Sound, Simple experiences in the phenomena of. pp. 178. New York, 1886.
9. Mayer, Alfred M., and Barnard, Charles. Light, Simple experiments in the phenomena of. pp. 112. New York, 1886.

10. Newcomb, Simon. Popular astronomy. pp. 577. New York, 1882.
11. Tait, P. G. Lectures on some recent advances in physical science; with a special lecture on force. pp. 363. London, 1876.

b. GEOGRAPHY AND GEOLOGY.

1. Atkinson, Edward. The relative strength and weakness of nations. *In* Century magazine, for June and February, 1886.

Two articles filled with information and suggestions of value in teaching geography.

2. Browne, S. H. The manual of commerce. pp. 429. Springfield, Mass., 1871.
3. Flammarion, Camille. The atmosphere. Edited by James Glaisher. pp. 453. New York, 1873.
4. Geikie, Archibald. Elementary lessons in physical geography and questions. 2 vols. pp. 366, 101. New York, 1883.
5. ——— Text-book of geology. pp. 971. London, 1882.
6. Glazier, Captain, and his lake. An inquiry into the history and progress of exploration at the head-waters of the Mississippi since the discovery of lake Itasca. Pamph. New York, n. d.
7. Guyot, Arnold. The earth and man. Lectures on comparative physical geography in its relation to the history of mankind. Translated by C. C. Felton. pp. 334. New York, 1884.

8. Heilprin, Angelo. The geographical and geological distribution of animals. pp. 435. New York, 1887.
9. ——— Town geology: the lesson of the Philadelphia rocks. pp. 134. Philadelphia, 1885.
10. Huxley, T. H. Physiography. An introduction to the study of nature. pp. 384. New York, 1883.
11. Johnston, Keith. A physical, historical, political and descriptive geography. pp. 490. London, 1881.
12. Mangin, Arthur. The desert world. Translated. London, 1869.
13. Marsh, George P. The earth as modified by human action. A new edition of man and nature. pp. 674. New York, 1882.
14. Reclus, Elisee. The earth. A descriptive history of the phenomena of the life of the globe. pp. 573. New York, 1879.
15. ——— The history of a mountain. Translated by Bertha Ness and John Lillie. pp. 195. New York, 1881.
16. ——— The ocean, atmosphere and life. pp. 534. New York, 1874.
17. Stanford's compendium of geography and travel. Based on Hellwald's "Die erde und ihre völker." London, 1882-1885.

Europe. F. W. Rudler and George G. Chisholm. Edited by Sir Andrew C. Ramsay. pp. 617.

Asia. Augustus H. Keane. Edited by Sir Richard Temple. pp. 723.

Africa. Keith Johnston. pp. 616.

North America. Edited and enlarged by Prof. F. V. Hayden and Prof. A. R. C. Selwyn. pp. 652.

Central and South America and West Indies. Edited by H. W. Bates. pp. 571.

Australasia. Edited and extended by Alfred R. Wallace. pp. 672.

Note.—For additional titles on geography see Col. Knox's, *The boy traveller series*, etc., under the head, *Juvenile literature*, *d*, *infra*.

c. BOTANY.

1. Bessey, Charles E. *The essentials of botany*. pp. 292. New York, 1885.
2. Gray, Asa. *How plants grow. A simple introduction to structural botany, with a popular flora, or an arrangement and description of common plants, both wild and cultivated*. pp. 233. New York, n. d.
3. ———. *Lessons in botany and vegetable physiology*. pp. 703. New York, 1868.
4. Herrick, Sophie Bledsoe. *Chapters on plant life*. pp. 206. New York, 1885.
5. Youmans, Eliza A. *The first book of botany*. pp. 158. New York, 1883.

d. PHYSIOLOGY AND ZOOLOGY.

1. Agassiz, L. *Methods of study in natural history*. pp. 319. Boston, 1882.

2. Bell, *Sir Charles*. The hand: its mechanism and vital endowments. pp. 260. London, 1882.
3. Cope, E. D. The origin of the fittest: essays on evolution. pp. 467. New York, 1887.
Part I. General evolution. Part II. Structural evidence of evolution.
Part III. Mechanical evolution. Part IV. Metaphysical evolution.
4. Dalton, John C. A treatise on human physiology. pp. 722. Philadelphia, 1882.
5. Emerton, James H. Life on the seashore; or, animals of our coasts and bays. With illustrations and descriptions. pp. 143. Boston, n. d.
6. Foster, M. Text-book of physiology. pp. 784. London, 1884.
7. Holder, Charles Frederick. Marvels of animal life. pp. 240. New York, 1885.
8. Hooker, Worthington. Natural history. pp. 382. New York, 1885.
9. Huxley, T. H., and Youmans, William Jay. The elements of physiology and hygiene. pp. 485. New York, 1880.
10. Jones, Thomas Rymer. The animal creation: a popular introduction to zoölogy. pp. 456. London, n. d.
11. Kingsley, Charles. Glaucus; or, the wonders of the seashore. pp. 245. London, 1881.
12. Langille, Rev. J. Hibbert. Our birds in their haunts: a popular treatise on the birds of eastern North America. pp. 623. Boston, 1884.
13. Morse, Edward S. First book in zoölogy. pp. 190. New York, 1879.

14. Orton, James. Comparative zoölogy, structural and systematic. Revised edition. pp. 396. New York, 1886.
15. Packard, A. S. Zoölogy for high schools and colleges. pp. 719. New York, 1883.
16. Sedgwick, William T., and Wilson, Edmund B. General biology. pp. 193. New York, 1886.
17. Stevenson, Sarah Hackett. Boys and girls in biology ; or, simple studies in the lower forms of life, based upon lectures of T. H. Huxley. pp. 186. New York, 1886.
18. Treat, Mary. Home studies in nature. pp. 243. New York, 1885.
19. Wood, Rev. J. G. A new illustrated natural history. pp. 795. London, n. d.

c. ETHNOGRAPHY AND ANTHROPOLOGY.

1. Peschel, Oscar. The races of man and their geographical distribution. pp. 518. New York, 1882.
2. Quatrefages, A. de. The human species. pp. 498. New York, 1883.
3. Topinard, Paul. Anthropology. Translated by Robert T. H. Bartley. pp. 548. London, 1878.
4. Tylor, Edward B. Anthropology. An introduction to the study of man and civilization. pp. 448. New York, 1881.
5. Wood, Rev. J. G. Man and his handiwork. pp. 668. London, 1886.

f. GENERAL.

1. Allen, Grant. Common sense science. Boston, n. d.

2. D'Anvers, N. Science ladders. About 80 pp. each. New York, 1884.

No. I. Forms of land and water.

No. II. The story of early exploration.

No. III. Vegetable life.

No. IV. Flowerless plants.

No. V. Lowest forms of water animals.

No. VI. Lowly mantle- and armor-wearers.

3. Guides for science teaching. Pamph. Boston, 1885.

No. I. About pebbles. Alpheus Hyatt.

No. II. Concerning a few common plants. George L. Goodale.

No. III. Commercial and other sponges. Alpheus Hyatt.

No. IV. A first lesson in natural history. Mrs. Agassiz.

No. V. Common hydroids, corals and echinoderms. Alpheus Hyatt.

No. VI. The oyster, clam and other common mollusks. Alpheus Hyatt.

No. VII. Worms and crustacea. Alpheus Hyatt.

No. XII. Common minerals and rocks. William O. Crosby.

No. XIII. First lessons on minerals. Ellen H. Richards.

Nos. VIII to XI in preparation.

4. Hooker, Worthington. The child's book of nature. New York, 1885.

Part I. Plants; pp. 136. Part II. Animals; pp. 166. Part III. Air, water, heat, light; pp. 179.

5. Science primers. Edited by T. H. Huxley, H. E. Roscoe and Balfour Stewart. About 120 pages each. New York, 1877-1883.

Introductory. T. H. Huxley.

Astronomy. J. Norman Lockyer.

Botany. J. D. Hooker.

Chemistry. H. E. Roscoe.

Geography. George Grove.

Geology. Archibald Geikie.

Inventional geometry. William George Spencer. With
a preparatory note by Herbert Spencer.

Logic. W. Stanley Jevons.

Physics. Balfour Stewart.

Physiology. M. Foster.

Physical geography. Archibald Geikie.

Political economy. W. Stanley Jevons.

XXXI.

BELLES-LETTRES.

A few representative writers for convenient reference.

1. Bryant, William Cullen, The poetical works of. New York, 1885.
2. Dante, Alighieri, The divine comedy of. Translated by Henry Wadsworth Longfellow. 3 vols. Boston, 1882,

3. Goethe, Johann Wolfgang von. Faust. A tragedy. Translated by Bayard Taylor. 2 vols. Boston, n. d.
4. Holmes, Oliver Wendell, The poetical works of. Boston. 1886.
5. Homer, The Iliad of. Translated into English blank verse by William Cullen Bryant. Boston, n. d.
6. ——— The Odyssey of. Translated into English blank verse by William Cullen Bryant. Boston, n. d.
7. Longfellow, Henry Wadsworth, The poetical works of. Boston, 1886.
8. Lowell, James Russell, The poetical works of. Boston, 1886.
9. Milton, John, The poetical works of. With a memoir and critical remarks on his genius and writings, by James Montgomery. 2 vols. London, 1877.
10. Shakspeare, William, The works of. Edited by William George Clarke and William Aldis Wright. Globe edition. London, 1878.
11. Virgil, The works of. Translated into English verse with variorum and other notes and comparative readings, by John Augustine Wilstach. 2 vols. Boston, 1884.
12. Ward, Thomas Humphry, *editor*. The English poets. Selections, with critical introductions by various writers, and a general introduction by Matthew Arnold. 4 vols. pp. 566, 496, 608, 626. New York, 1881.
13. Whittier, John Greenleaf, The poetical works of. Boston, 1884.

XXXII.

JUVENILE LITERATURE.

The following collection is intended simply to furnish suggestions for a small school library, to which pupils might be allowed free access. It is needless to call attention to its incompleteness or deficiencies, which are the result of limited opportunities for collecting.

a. STORIES, CHILDREN'S CLASSICS, ETC.

1. **Arabian nights'** entertainment, The. Revised with notes by Geo. Fyler Townsend. pp. 632. London, n. d.
2. **Church, Alfred J.** Stories from ancient classic writers. About 300 pages, each. New York, n. d.

Seven vols, as follows:—

Stories from Homer. With twenty illustrations from Flaxman's designs.

Stories from the Greek tragedians. With twenty illustrations from designs by Flaxman and others.

Stories of the East from Herodotus. With illustrations from ancient frescoes and sculptures.

The story of the Persian war from Herodotus. With illustrations from the antique.

Roman life in the days of Cicero ; sketches drawn from his letters and speeches. With illustrations.

Stories from Virgil. With twenty illustrations from Pinelli's designs.

Stories from Livy. With illustrations from designs by Pinelli.

3. ——— Two thousand years ago ; or, the adventures of a Roman boy. pp. 384. London, 1886.

4. Classics for children. 10 vols. Boston, 1884, 1885.

Turner, E. A. Stories for young children. Introductory.

Kingsley, Charles. The heroes ; or, Greek fairy tales for my children. Edited by John Tetlow.

Swiss family Robinson, The. (By J. D. Wyss.) Edited by J. H. Stickney.

Irving's sketch book, Six selections from, etc. Edited by Homer B. Sprague and M. E. Scates.

Church, Alfred J. Stories of the old world.

De Foe, Daniel. Life and adventures of Robinson Crusoe. Edited by W. H. Lambert.

Shakspeare's Merchant of Venice, with introduction. Edited by Henry N. Hudson.

Lamb, Charles and Mary. Tales from Shakspeare.

Scott, Sir Walter. Tales of a grandfather. Abridged and edited by Edwin Ginn.

——— Quentin Durward. Edited with a historical introduction by Charlotte M. Yonge.

——— The lady of the lake. Edited by Edward Ginn.

5. Crane, Thomas Frederick, *editor*. Italian popular tales. pp. 389. Boston, 1885.
6. Dickens, Charles. Schools and schoolmasters. Edited by T. J. Chapman. pp. 231. New York.
7. Eggleston, George Cary. Strange stories from history for young people. pp. 243. New York, 1886.
8. Grimm's fairy tales. A new translation by H. B. Paull. Adapted and arranged by W. J. Weigand. pp. 575. London, n. d.
9. Hawthorne, Nathaniel. A wonder-book for girls and boys. pp. 256. Boston, n. d.
10. Henty, G. A. The young Carthaginian; or, a struggle for empire. pp. 384. New York, 1887.
11. Hughes, T. Tom Brown's school days. pp. 376. New York, 1884.
12. ——— Tom Brown at Oxford. pp. 546. New York, 1883.
13. Laboulaye, Edouard. Last fairy tales. Authorized translation by Mary L. Booth. pp. 382. New York, 1885.
14. Muloch, Dinah Maria. The fairy-book. The best popular fairy stories, selected and rendered anew. pp. 368. London, 1882.
15. Raju, P. V. Ramaswami. The tales of the sixty mandarins. pp. 280. London, 1886.
16. Scudder, Horace E., *compiler*. The book of fables, chiefly from Æsop. pp. 80. Boston, 1885.

17. Whittier, John Greenleaf, *editor*. Child life in prose. pp. 301. Boston, n. d.

b. POETRY.

1. Carleton, Will. Young folks' centennial rhymes. pp. 123. New York, 1876.
2. Children's book of poetry, The. Carefully selected from the works of the best and most popular writers for children, by Henry T. Coates. pp. 531. Philadelphia, n. d.
3. English, Thos. Dunn. The boys' book of battle lyrics. A collection of verses illustrating some notable events in the history of the United States of America, from the colonial period to the outbreak of the sectional war. pp. 168. New York, 1885.
4. Games and songs of American children. Collected and compared by William Wells Newell. pp. 242. New York, 1884.
5. Old favorite nursery rhymes. Stories and ballads for English children. pp. 368. London, n. d.
6. Our children's songs. pp. 207. New York, n. d.
7. Songs and rhymes for the little ones. Compiled by Mary J. Morrison. pp. 234. New York, 1884.
8. Thaxter, Celia. Poems for children. Illustrations by Miss A. G. Plympton. pp. 153. Boston, 1884.
9. Whittier, John Greenleaf, *editor*. Child life. A collection of poems. pp. 263. Boston, n. d.

c. HISTORY AND BIOGRAPHY (CHIEFLY AMERICAN).

1. Abbot, Willis J. Blue jackets of '61: a history of the navy in the war of secession. pp. 318. New York, 1886.
2. Bonner, John. A child's history of the United States. 3 vols. pp. 308, 317, 367. New York, 1876.
3. Coffin, Charles Carleton. Building the nation. Events in the history of the United States from the revolution to the beginning of the war between the States. pp. 485. New York, 1883.
4. ——— Old times in the colonies. pp. 460. New York, n. d.
5. ——— The boys of '76. A history of the battles of the revolution. pp. 398. New York, n. d.
6. ——— The boys of '61. pp. 558. Boston, 1886.
7. Cooke, John Esten. Stories of the old dominion from the settlement to the end of the revolution. pp. 337. New York, n. d.
8. Dickens, Charles. A child's history of England. pp. 470. Boston, n. d.
9. Drake, Francis S. Indian history for young folks. pp. 479. New York, 1885.
10. Drake, Samuel Adams. A book of New England legends and folk lore. In prose and poetry. pp. 457. Boston, 1884.

11. Drake, Samuel Adams, *editor*. Our great benefactors. Short biographies of the men and women most eminent in literature, science, philanthropy, art, etc. pp. 520. Boston, 1884.

12. Foster, Ernest. Abraham Lincoln. pp. 128. New York, 1885.

13. Franklin, Benjamin, Autobiography of. pp. 238. Boston, 1886.

This edition has been edited for school use.

14. Hawthorne, Nathaniel. True stories from history and biography. pp. 76. Boston, n. d.

15. Henty, G. A. With Wolfe in Canada; or, the winning of a continent. pp. 384. New York, 1887.

16. Herodotus, 'The boys' and girls'. Being parts of the history of Herodotus. Edited for boys and girls, with an introduction by John S. White. pp. 325. New York, 1884.

17. Lossing, Benson J. The story of the United States navy; for boys. pp. 418. New York, n. d.

18. Plutarch, 'Our young folks'. Edited by Rosalie Kaufman. pp. 460. Philadelphia, 1884.

19. Scudder, Horace E. Boston town. pp. 243. Boston, 1883.

20. Smith, Helen Ainslie. One hundred famous Americans. pp. 566. New York, n. d.

21. *Story of the nations, The.* About 400 pp. each. New York, 1886, 1887.
The story of Chaldea, from the earliest times to the rise of Assyria. Zénaïde A. Ragozin.
The story of Greece. James A. Harrison.
The story of Hungary. Arminius Vámbéry.
The story of the Jews. James K. Hosmer.
The story of the Moors in Spain. Stanley Lane-Poole.
The story of Norway. Hjalmar H. Boyesen.
The story of Rome, from the earliest times to the end of the republic. Arthur Gilman.
The story of the Saracens, from the earliest times to the fall of Bagdad. Arthur Gilman.
22. Tomkinson, E. M. *Benjamin Franklin.* pp. 128. New York, 1885.
23. Wright, Henrietta Christian. *Children's stories in American history.* pp. 356. New York, 1885.
24. ——— *Children's stories of American progress.* pp. 333. New York, 1886.
25. Yonge, Charlotte M. *A book of golden deeds of all times and all lands.* pp. 454. New York, 1882.

d. GEOGRAPHY AND TRAVEL.

1. Andrews, Jane. *The seven little sisters who live on the round ball that floats in the air.* pp. 127. Boston, 1879.
2. ——— *Each and all; or, how the seven little sisters prove their sisterhood. A companion to "The seven little sisters who live on the round ball that floats in the air."* pp. 159. Boston, n. d.

3. Butterworth, Hezekiah. Zigzag journeys in classic lands; or, Tommy Toby's trip to Mount Parnassus. pp. 318. Boston, 1883.
4. ——— Zigzag journeys in Europe. Vacation rambles in historic lands. pp. 311. Boston, 1883.
5. ——— Zigzag journeys in northern lands. The Rhine to the Arctic. A summer trip of the zigzag club through Holland, Germany, Denmark, Norway and Sweden. pp. 320. Boston, 1884.
6. ——— A zigzag journey in the sunny south; or, wonder tales of early American history. pp. 320. Boston, 1887.
7. Champney, Lizzie W. Three Vassar girls on the Rhine. A holiday trip of three college girls through Germany, by way of this celebrated river. pp. 235. Boston, 1887.
8. Hale, Susan. A family flight through Spain. pp. 360. Boston, n. d.
9. Johonnot, James. A geographical reader. New York, 1883.
10. Kirby, Mary and Elizabeth. The world by the fireside; or, pictures and scenes from far-off lands. London, 1883.
11. Knox, Thomas W. The boy travellers in the far east. About 500 pages each. New York, 1882-1884.

Part First.—Adventures of two youths in a journey to Japan and China.

Part Second.—Adventures of two youths in a journey to Siam and Java. With descriptions of Cochin-China, Cambodia, Sumatra and the Malay Archipelago.

Part Third.—Adventures of two youths in a journey to Ceylon and India. With descriptions of Borneo, the Philippine islands and Burmah.

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Part Fifth.—Adventures of two youths in a journey through Africa.

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13. ——— The boy travellers in the Russian empire. Adventures of two youths in a journey in European and Asiatic Russia, with accounts of a tour across Siberia; voyages on the Amoor, Volga and other rivers; a visit to Central Asia; travels among the exiles, and a historical sketch of the empire from its foundation to the present time. New York, 1887.
14. ——— Adventures of two youths in the open Polar Sea. The voyage of the "Vivian" to the North Pole and beyond. New York, 1885.
15. ——— The travels of Marco Polo; for boys and girls, with explanatory notes and comments. pp. 530. New York, 1885.
16. McCabe, James D. Our young folks abroad. The adventures of four American boys and girls in a journey through Europe to Constantinople. pp. 344. Philadelphia, 1882.

17. Miller, Olive Thorne. Little people of Asia. pp. 405. New York, 1885.
18. Shepard, Hazel. The great cities of the ancient world. pp. 256. New York, n. d.
19. ——— The great cities of the modern world. pp. 427. New York, n. d.
20. What Mr. Darwin saw in his voyage round the world in the ship "Beagle." pp. 218. New York, n. d.

e. SCIENCE.

1. Bailey, L. H. Talks afield, about plants and the science of plants. pp. 168. Boston, 1885.
2. Biart, Lucien. Adventures of a young naturalist. Edited and adapted by Parker Gillmore. pp. 491. New York.
3. Buckley, Arabella B. The fairy-land of science. pp. 237. New York, 1884.
4. ——— Life and her children. Glimpses of animal life from the amoeba to the insects. pp. 301. New York, 1885.
5. ——— The winners in life's race; or, the great back-boned family. pp. 353. New York, 1883.
6. Church, Ella Rodman. Flyers and crawlers; or, talks about insects. pp. 365. Philadelphia, n. d.
7. Hopkins, Louisa P. Natural history. Plays, dialogues and recitations for school exhibitions. pp. 88. Boston, 1885.

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8. Ingersoll, Ernest. Country cousins. Short studies in the natural history of the United States. pp. 252. New York, 1884.
 9. Johonnot, James. A natural history reader. pp. 414. New York, 1883.
 10. ——— Glimpses of the animate world ; or, science and literature of natural history. pp. 414. New York, 1885.
 11. ——— Neighbors with claws and hoofs, and their kin. pp. 256. New York, 1885.
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 13. Kingsley, Charles. Madam how and lady why ; or, first lessons in earth lore for children. pp. 321. New York, 1885.
 14. ——— The water babies. A fairy tale for a land baby. Edited and abridged by J. H. Stickney. pp. 192. Boston, 1885.
 15. Mace, Jean. The history of a mouthful of bread, and its effect on the organization of men and animals. Translated by Mrs. Alfred Gatty. pp. 398. New York, 1866.
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 17. Pliny, 'The boys' and girls'. Being parts of Pliny's "Natural history." Edited for boys and girls, with an introduction by John S. White. pp. 326. New York, 1885.

18. Uncle Herbert, *pseud.* Feet and wings: or, among the beasts and birds. pp. 176. Philadelphia, n. d.
19. Uncle Lawrence, *pseud.* Young folks' ideas. A story. pp. 243. Philadelphia, 1885.
20. Wood, *Rev. J. G.* Illustrated natural history for young people. pp. 229. New York, n. d.
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